

20

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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# AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

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AUGUST 15, 1947

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## CONTENTS

Soil Conservation for Nurseries.....	7
By A. D. Slavin	
Close of A. A. N. Convention at Boston.....	9
British Association's Activities.....	11
Prize Designs of Small Home Grounds.....	12
Simple Device for Spraying.....	15
By Dr. C. L. Hamner and Dr. Loren D. Tukey	
Plant Notes Here and There.....	20
By C. W. Wood	
Editorial.....	6
—Delegates.....	6
—Savings above Prewar.....	6
Arborists' Registration.....	8
Fruit Varieties Survey.....	10
New Sprays Kill Gladiolus Thrips.....	12
Coming Events.....	14
—Meeting Calendar.....	14
—New Jersey Dates.....	14
—Nebraska Field Day.....	14
—Kentucky Plans.....	14
—Gardeners to Meet.....	14
—Nut Growers Meet.....	14
—Entertainment Features California Convention.....	14
Wisconsin Inspection Aims to Protect Public.....	14
St. Louis Group Meets.....	15
Vine Weevil on Taxus.....	15
Spider on Arborvitae.....	26
Farm Income High.....	26
Illinois Nurseries Distribute Seedlings.....	27
Quarantine Actions.....	28
—Quarantine Amendment Signed by President.....	28
—Cut Flower Quarantines.....	28
—New Plant Quarantine Station at Miami.....	28
Connecticut Exhibit.....	29
Central Plant Board Meets.....	30
New Minnesota Fruits.....	30
Connecticut Nurseries.....	31
New Products.....	32
—Slip-Tite Hose Coupling.....	32
—Garden Hose Coupling.....	32
—Light Low-cost Tiller.....	32
—Fir Bark as Mulch.....	33
State Sales Taxes.....	34
Apples in Pennsylvania.....	35
New Books and Bulletins.....	36
—Arboretum Directory.....	36
—American Begonias.....	36
—New Book on Dahlias.....	36
—American Rose Annual.....	37
—From New York Garden.....	37
—pH and Plants.....	38
—"Practical Emulsions".....	38
—Chemistry in Foods.....	39
—Variety Register.....	39
—Greenhouse Bench.....	39
California Association of Nurserymen.....	40
—California Virus Disease Control.....	40
—Prepare Pamphlets on Good Advertising.....	40
—L. A. Group Hears Report on Prices.....	41
—San Diego Meetings.....	41
—San Fernando Meeting.....	42
Black Mold as Cause of Rose Graft Failure.....	42
Gold Medal Rose.....	43
California Arboretum.....	43
Cover Illustration.....	46
—Lavandula Officinalis.....	46
Catalogs Received.....	46
Mass Variety Production.....	48
Peach Scale Control.....	58

# INDEX TO ADVERTISERS

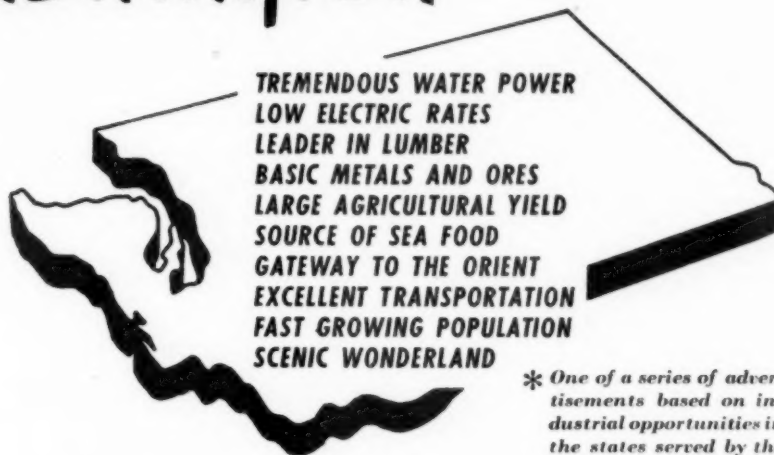
Ackerman Nurseries .....	37	Grootendorst & Sons, F. J. ....	39	Pontiac Nursery Co. ....	39
American Bulb Co. ....	41	Grootendorst, J. M. Son, Peter ..	38	Portland Wholesale Nursery ..	43
American Chemical Paint Co. ....	48	Gro-Quick .....	48	Premier Peat Moss Co. ....	55
American Color & Chem. Co. ....	48	Guldemond's .....	39	Princeton Nurseries .....	22
American Florist Supply Co. ....	47				
Andersen Evergreen Nursery ..	29	Half Moon Mfg. & Trading		Rambo's Wholesale Nursery,	
Andrews Nursery Co. ....	37	Co., Inc. ....	39	L. J. ....	36
Arboret Supply Co., Inc. ....	50	Halpern Bros. Nurseries .....	58	Rapids-Standard Co., Inc. ....	47
Ariens Co. ....	54	Harrison Bros. Nurseries .....	37	Rich & Sons Nursery .....	42
Atkins Sons, L. ....	58	Heasley's Nurseries .....	31	Rivet-O Mfg. Co. ....	52
Atlas Supply Division .....	49	Herbst Bros. ....	1	Robinson Sales Agency, E. D. ..	26
		Hess Nurseries .....	29	Rogers Wholesale Nurseries ..	36
Bagatelle Nursery .....	27	Highway Gardens .....	34	Rollers Wholesale Nurseries ..	36
Bailey Nurseries, J. V. ....	33	Hill Nursery Co., D. ....	60	Rose Lawn Nurseries .....	33
Bartlett Mfg. Co. ....	52	Hobbs & Sons, Inc., C. M. ....	33		
Beets, Inc. ....	50	Homestead Nurseries .....	38	Scammel & Son, H. B. ....	36
Birchlane Farm .....	42	Hook's Nursery .....	25	Scarff's Sons, W. N. ....	36
Bobbink & Atkins .....	26	Horsford, William Crosby ..	24	Schifferli & Son Nurseries, F. E. ..	31
Boulevard Nurseries .....	20	House & Sons, L. C. ....	34	Schupp Florist Supply Co. ....	56
Boxwood Gardens .....	32	Howard Rose Co. ....	41	Schuykill Chemical Co. ....	55
Boyd Nursery Co. ....	33	Hudson Mfg. Co., H. D. ....	23	Shavings & Sawdust Co. ....	48
Brookfield Gardens .....	26	Humphreys Landscape Service ..	37	Shepard Nurseries .....	22-48
Brown Deer Nurseries .....	26-28	Hydroponic Chemical Co., Inc. ..	57	Sherman Nursery Co. ....	32
Brownell Roses .....	28			Sherwood Nursery Co. ....	43
Bryant's Nurseries .....	33	Ilgenfritz Nurseries, Inc. ....	36	Siebethaler Co. ....	32
Bryon Floral Gardens .....	32			Sine Equipment Co. ....	57
Bulk & Co. ....	39	Jewell Nurseries, Inc. ....	33	Sisk Nurseries .....	40
Buntings' Nurseries, Inc. ....	24-30-35	Johnston, Wm. A. ....	41	Sizemore, Charles .....	50
Burr & Co., Inc., C. R. ....	22			Smith Corp., W. T. ....	24
Burton's Hilltop Nurseries ..	33	Kallay Bros. Co. ....	37	Smith & Son, Inc., Seymour ..	55
		Keeler's Gardens .....	40	Sneed Nursery Co. ....	34
California Nursery Co. ....	41	Koster Nursery Co. ....	31	Soil Research Laboratories, Inc. ..	53
Call's Nurseries .....	38	Krieger's Wholesale Nursery ..	37	Somerset Rose Nursery .....	49
Carlton Nursery Co. ....	42			South Eastern Michigan Nurs. ..	39
Carpenter & Co., Geo. B. ....	56	LaBar's Rhododendron Nursery ..	26	Sprayer Corp. of America .....	48
Champion Sprayer Co. ....	49-52	Lake's Shenandoah Nurseries ..	33	Standard Supply Co. ....	58
Chase Co., Benjamin .....	58	Leghorn's Evergreen Nurseries ..	32	State Road Nursery .....	31
Classified Ads .....	44-45	Leonard & Sons, A. M. ....	58	Stuart & Co., Inc., C. W. ....	25
Cloverset Flower Farm .....	59	Lindig's Mfg. Co. ....	54	Sudbury Soil Testing	
Clyde Home & Garden Supply ..	40	Loewith, Inc., Julius .....	47	Laboratory .....	47
Coastal Gardens .....	47	Lovett, Lester .....	32	Summit Nurseries .....	38
Colby Co., Eli. ....	56			Suncrest Evergreen Nurseries ..	32
Commercial Nursery Co. ....	40	Maloney Bros. Nursery Co., Inc. ..	37	Swift & Co. ....	27
Crystal Soap & Chemical		Maxwell-Bowden & Rice, Inc. ....	29		
Co., Inc. ....	48	Maywood Rose Nursery .....	40	Tarlton Nurseries .....	34
Curtis Nurseries .....	27	McGill & Son, A. ....	43	Taylor & Sons, L. R. ....	38
		McHutchison & Co. ....	58	Tobacco By-Products &	
Dayton Fruit Tree Label Co. ....	58	Meehan Co., Thomas B. ....	27-53	Chemical Corp. ....	58
Deerfield Nurseries .....	22	Milton Nursery Co. ....	43		
Del Rancho Fortuna .....	41	Mitsch Nursery .....	42	Unexcelled Chemical Corp. ....	57
Doerfler & Sons, F. A. ....	43	Monarch Shingle Co. ....	41	Union Pacific Railroad .....	5
Doty & Doerner, Inc. ....	43	Monrovia Nursery Co. ....	41		
Dow Chemical Co. ....	54	Moran, E. C. ....	41	Vanvert Freres & Fils .....	39
Driver's Wholesale Nursery ..	36	Mountainburg Nursery .....	34	Verhalen Nursery Co. ....	34
Dummett, Arthur .....	24	Mount Arbor Nurseries .....	2	Vuyk Van Nes Nurseries .....	39
		Mount Vernon Nursery .....	42		
		Mullins Plant Farms .....	40	Want Ads .....	46
Eagle Wrapping Products Co. ....	52			Washington Nurseries .....	42
Evergreen Nursery Co. ....	34	National Landscape Institute ..	40	Weller Nurseries Co. ....	21
		National Nurseries .....	26-39	West Hill Nurseries .....	38
Fairview Evergreen Nurseries ..	22	New Amsterdam Import Co.,		Westminster Nurseries .....	31
Fertigator .....	55	Inc. ....	53	Wherry Nurseries .....	32
Fike Nurseries .....	33	North Ridge Nursery .....	32	WhiteShowers, Inc. ....	50
Filtrol Corp. ....	41			Williams & Harvey Nurseries	
Forest Nursery Co. ....	16-17-18-19	Onarga Nursery Co., Inc. ....	34	Co., Inc. ....	50
Foster Nursery Co. ....	38	Overlook Gardens .....	29	Williams, Isaac Langley .....	24
Fricke Co., J. E. ....	52	Ozark Plant Farms, Inc. ....	35	Willis Nursery Co. ....	35-52
				Wonderland Nurseries .....	32
Galletta Brother's Blueberry		Pacific Coast Nursery .....	42		
Farms .....	37	Pallack Bros. Nurseries, Inc. ....	22	Yoho & Hooker .....	51
Garden Shop, Inc. ....	54	Palmer & Son, J. R. ....	34	Youdath Nurseries, Joseph P. ....	29
Gardner's Nurseries .....	24	Peterson & Dering .....	43		
Gray Nurseries .....	41	Plant Products Corp. ....	47	Zephyr Hill Nurseries .....	31

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# Washington



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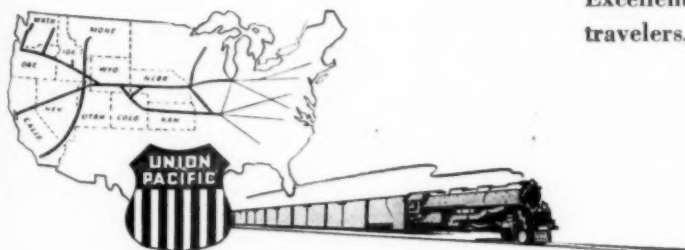
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## UNION PACIFIC RAILROAD

THE STRATEGIC MIDDLE ROUTE

# AMERICAN NURSERYMAN

F. R. KILNER, Editor

## Editorial

### DELEGATES.

With the number of delegates on the board of governors approaching 100, because of payment of increased dues rather than a gain in members, officers of the American Association of Nurserymen discussed the desirability of a reduction in the size of the board, in their opening messages to the Boston convention.

Once before, a reduction had been achieved by increasing to \$500 the amount of dues required for an additional delegate. Each chapter is entitled to one delegate for the first \$200 of dues paid.

Only one suggestion was placed before the board of governors at Boston in regard to reducing its size, and that was in the nature of a trial balloon, a resolution introduced at a late hour on Wednesday and tabled because of its obvious disapproval by the delegates on Thursday. The executive committee then was instructed to study the matter and prepare several proposals, so that the board of delegates might be given a preference of methods at its next meeting.

Disapproval of the procedure outlined in the resolution offered at Boston was primarily because of the possibility of placing too much authority in the hands of a limited number of individuals. The proposal was that each of the thirty chapters of the association be allowed one delegate, who would have an additional vote for each \$500 in dues above the amount of \$200 which authorized his election as a delegate. Judging from the present makeup of the board, several delegates would have four or five votes and some would have as high as eight or nine votes.

The method of election of delegates to the A. A. N. board of governors is of first importance because on that procedure hangs the democratic administration of the association's affairs achieved by the complete reorganization of the A. A. N. ten years ago. Complaint against the old form of organization was that it concentrated power in the hands of a few members. If the size of the present board is too large, reduction should be achieved in a way to obviate return to the much-criticized former concentration of power.

Arguments against a large board of governors are that it is (1) expen-

sive and (2) unwieldy. Figures in the A. A. N. financial report indicate that the transportation of a delegate (one-half of his railroad and Pullman fares to the convention and return) amounts to approximately \$50. So if an additional delegate is authorized by an additional \$500 in dues, the additional delegate costs ten per cent of the increase in revenue.

It is important to remember, however, that the delegate pays an equal amount for his transportation and a considerable sum in addition in hotel and other expenses, in order to attend the convention.

Another point is worth note. Delegates answer roll call at the beginning of each session, and a delegate does not receive a refund of his transportation expense if his attendance is not satisfactory. At the Boston convention at least one prominent speaker had an audience of moderate size only because the delegates were in the room. Of course, it is debatable whether the forced attendance is any compliment to the speakers, or whether the convention program should be made of such attractive interest to the members at large that they will voluntarily fill the auditorium.

The argument that a large board of governors is unwieldy depends upon a better definition of the word than has been advanced. Certainly the delegates have been most orderly, and the time consumed by their appearance on the floor was pretty nearly at a minimum at Boston. Perhaps if debatable subjects were introduced early on the program, discussion from the floor might take up considerable time. Who can say whether or not that time would be profitable or wasted? The votes cast by the board of delegates at Boston were unanimous, or so nearly, so that a voice vote was sufficient. No time was consumed in roll call votes, though that also is a possibility if some issues are hotly debated on the floor.

Because the composition of the board of governors and the method of the delegates' election is a critical issue as affecting the future of the American Association of Nurserymen, it has seemed worth while here to seek definition of some of the issues involved so that thinking will be clear when the officers and the members of the board of governors consider the subject for their next decision.

## The Mirror of the Trade

### SAVINGS ABOVE PREWAR.

In discussions of the high cost of living, particularly when directed to wage increases, the statement is occasionally made that the public is using up its savings to meet current living expenses. In some quarters it is felt that high sales volumes are possible at this time only because many consumers are drawing on their savings to pay for things they could not buy during the war.

Recent figures carefully compiled by the Department of Commerce and the Securities and Exchange Commission show that in the first quarter of this year the people of the United States added to their liquid savings by \$1,400,000,000. This amount was over and above whatever sum was spent to acquire homes, automobiles and other durable goods. The figure includes only net additions to savings in the form of bank deposits, insurance reserves and securities.

Net addition to liquid savings of \$1,400,000,000 in three months represents a decline from the wartime rate, inasmuch as in twelve months of 1946 liquid savings were over \$15,000,000,000. But the rate of savings for the first quarter of this year is above the prewar level. The 1940 rate of liquid savings was \$4,000,000,000 for the entire year.

Hence there is no basis for the statement that the country is using up its savings to maintain business at the current level. It is rather surprising that this is so, because most people laid aside money during the war for the very purpose of spending it later as wanted merchandise again came on the market. That present consumer buying continues at the pace it does, with peacetime liquid savings at a higher rate than prewar, is still more remarkable.

ANTON J. TOMASEK, formerly state forester of Illinois, will enter business at Des Plaines, Ill. July 1 he resigned his position with the forestry department where he had been for eleven years.

MISS MARY O'CONNOR, credit manager and assistant treasurer of Lord & Burnham, Irvington, N. Y., was presented with a bouquet of fifty yellow roses and a leather-bound testimonial signed by officers and employees of the firm at a luncheon July 23 honoring her for fifty years' service.

# Soil Conservation for Nurseries

By A. D. Slavin

Soil conservation is properly defined as the use of each acre of land to its ability to produce on a permanent basis. In developing means and methods for conserving soil, we do not undertake the job merely for the sake of conservation, but in order that each and every acre can continue to produce, now and in the future, according to its inherent capacity and ability.

If we glance back over the pages of history, we find that of all the resources at man's disposal since the beginning of time, there probably is no other resource which has been so abused and neglected as the soil. As a nation, the United States has so far exceeded all other nations in the destructive use of its soil. The following figures, based on extensive studies, support this statement! The United States has been settled wholly or in part for little more than 300 years. During this period, 50,000,000 acres have been ruined for further cultivation and another 50,000,000 acres are close to abandonment. Of the remaining land, 100,000,000 acres have lost twenty-five to seventy-five per cent of the topsoil. Thus a total of 200,000,000 acres, equal to the land surface of Michigan, Ohio, Indiana, Missouri, Kentucky and Maryland, have been damaged, wholly or in part, by exploitive use and erosion. Up to the present time, the amount of soil we have lost to the seas could have supported another 60,000,000 people.

## Working with Nurserymen.

During the past several years it has been my good fortune to have the opportunity to discuss this subject with a number of midwestern nurserymen and to work with them in the development of soil conservation programs. Because nursery work is a specialized field, conservation programs were in action on many thousands of farms before anyone had the idea that the principles of saving and maintaining soil apply as much to the nurseryman as to the livestock, dairy or grain farmer.

Recalling the various nurseries which have developed soil conservation programs during the past six

years, I cannot remember a single instance where the program has been allowed to deteriorate or where the operator has lost interest.

My first experience with the development of a nursery soil conservation program was with Mount Arbor Nurseries, at Shenandoah, Ia. As you may know, Shenandoah has a rich, deep soil. The people there are, however, confronted with steep slopes and a type of soil which runs like sugar when wet. Organic matter is quickly oxidized by high summer temperatures and drying winds. The open character of the soil encourages the leaching of plant nutrients into the soil. The program of Mount Arbor Nurseries consists of terraces to hold the soil and a series of planned rotations to maintain its physical condition and fertility.

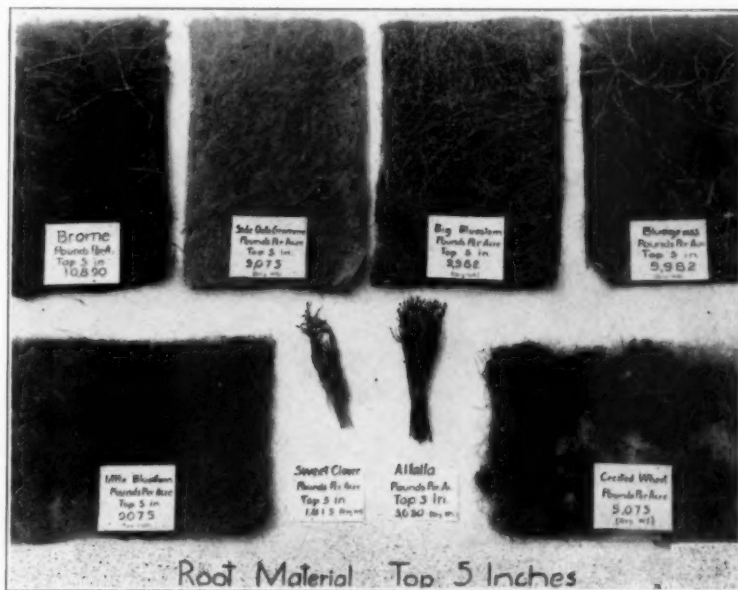
In Illinois, the D. Hill Nursery Co., at Dundee, is rapidly completing a conservation program, as are a good many other nurseries in the midwest.

I would like to point out here several fallacies which seem to exist in the minds of some people, including nurserymen, regarding both the need and the effect of soil conservation.

Today it is difficult for one to make an automobile or airplane trip without seeing the results of such

practices as terracing and contouring on many farms. These practices are not only spectacular but are basic necessities on a large portion of our land. The nurseryman who adopts such practices is headed in the right direction and will succeed, provided he does not stop at this point. Mechanical practices, such as terracing and contouring, help to hold the land in place, but they do not improve its quality. They serve an important function in holding real estate on the nursery but if used without adequate soil-building rotations and fertilizers, they do not increase the productive capacity of the soil. The nursery that has a terrace system or uses contour tillage but has no rotation, is using soil conservation practices although it does not necessarily have a soil conservation program.

Although it has never been suggested to me by a nurseryman, I have been told on good authority that some nurserymen are considering the rehabilitation of nursery land by moving in topsoil. By way of commenting on such a procedure, it should be pointed out that on the average, an acre-inch of topsoil weighs 150 tons. To place five inches of topsoil on an acre of land would require the transportation of 750 tons of soil. Considered in this light, it is questionable if such an



Type and amount of roots contained in the plow layer of various grasses and legumes, from data obtained in Iowa.

Address by A. D. Slavin, chief of the regional nursery division, soil conservation service, United States Department of Agriculture, Milwaukee, Wis., before the American Association of Nurserymen, July 24 at Boston, Mass.





Black Hills Spruce on the Contour at Mount Arbor Nurseries, Shenandoah, Va.

undertaking would pay. However, as we become more conscious of the value of our soil, I shall be surprised if the replacement of soil removed with B&B stock does not become an established practice. Even this is no simple task, for the amount of soil removed from an acre with B&B stock will average about 220 tons.

One other observation concerns the retail nurserymen, particularly those who deal in specimen material and novelty items. In this group there is a tendency to look upon complete soil-building programs as something which can be adopted successfully and entirely only by the wholesale operator who turns his stock as a crop, digging everything in one or two years. Because the retail nurseryman may continue to dig out of a block over a period of years, he is sometimes inclined to feel that he cannot manage or rotate his land as the larger operator does. It is true that he cannot follow the same timing, nor can he in all instances use the same rotations, but he can do the job and benefit by it. The main difference is that it will require a little longer time for him to install soil conservation practices on all of his land. Headed in the right direction, he can accomplish the same long-time objectives as the large wholesale operator if he sticks to it.

The more we take from the soil, the more we must put back. The more intensive the use, the more intensive must be the management. I think you will agree with this statement and I believe you will also agree that the production of nursery stock is hard on land.

Digging and planting, both in the fall and in the spring, often must be done when the soil is wet. The re-

sultant packing and trampling of the soil by men, teams, heavy nursery equipment and trucks causes puddling and deterioration of the physical condition of the soil. Almost any soil must be in top shape to withstand this treatment without damage.

The production of nursery stock under clean tillage is and probably will continue to be standard practice, although some studies now are under way to determine under what conditions it may be possible to grow certain categories of stock in combination with sodlike types of ground cover. Unfortunately, there are no data to show actual soil losses incurred in the production of nursery stock under clean tillage. I hope some day that such information will be available to nurserymen. In the

meantime, let us make some comparisons with corn, for which we have considerable data. In offering these figures, I am assuming that soil loss for corn and nursery stock are comparable. I think this is a conservative comparison. Corn is not only an annual crop but is seldom clean-tilled, as we think of that term in nursery practice, more than four months of the year. The remainder

[Continued on page 49.]

#### ARBORISTS REGISTRATION.

Another effort will be made the coming year to have a bill enacted to register arborists in the state of Massachusetts.

Last spring the Massachusetts Nurserymen's Association opposed the bill on the grounds that the definition of arborists included nurserymen and that nurserymen did not want to become registered arborists in order to carry on their nursery business. The definition in the bill read in part as follows: "Any person engaged in the business of pruning, training or removal of shade and ornamental trees and shrubs," etc.

The nurserymen were asked by the sponsors of the bill to cooperate in drawing up legislation acceptable to both. A joint meeting of both groups was set for August 6, which was field day at the Waltham field station of Massachusetts State College.

OFFICERS of the American Association of Nurserymen were entertained the evening of July 23 at the home of Harold Ross, vice-president of Breck's, Boston, Mass.



Conifers planted in contour strips with sod strips in between, at the D. Hill Nursery Co., Dundee, Ill. When conifer strips are dug they will go into sod and strips now in sod will go into conifers. Rotation: S<sub>1</sub>-S<sub>2</sub>-N<sub>1</sub>-N<sub>2</sub>-N<sub>3</sub>.



# Close of A. A. N. Convention at Boston

Although registration by those who paid \$10 for the booklet of admissions to entertainment features did not reach the figure of some pre-war conventions, the attendance at the seventy-second annual meeting of the American Association of Nurserymen, at Boston, July 21 to 24, was estimated to have been not greatly short of the record—though the number of nurserymen seen in the hotel lobby but not at the registration desk could only be guessed. By the final day a men's registration of 664 was reported, in addition to about 300 ladies and juniors. On the Tuesday evening cruise about 800 were reported on the boat, while the banquet was attended by over 700, several tables having to be set up for late-comers.

While the convention sessions were reported in the August 1 issue, some of the events of the closing day merit fuller comment.

As to the outstanding address on soil conservation for nurseries presented Thursday morning, July 24, by A. D. Slavin, the reader may judge himself, as the talk is published in full on a forward page of this issue.

At the afternoon session, the talk given by T. Hilling, of the nursery firm of T. Hilling & Co., Chobham, Woking, England, was particularly interesting for the outline it presented of the workings of the Horticultural Trades Association, which is the British nursery organization paralleling the A. A. N. The formation of the H. T. A. and its principal activities are told in the excerpts from Mr. Hilling's talk presented on another page of this issue.

The detailed data presented by John T. Bregger, regarding plums, cherries and grapes, from the na-

tional fruit variety trends survey, are summarized on page 10 of this issue.

## Board Actions.

As previously reported, the convention heard the proposed plan of publicity to be carried out by a New York public relations firm, and the board of governors approved the expenditure of \$24,000 in the ensuing year for that purpose.

Linked with the publicity program, the gift certificate proposal is to be carried out along the lines described at Boston by the committee.

Amendment of the bylaws was made to restrict the membership to "those concerns whose major activities are agricultural or horticultural" by writing those words into the first sentence of paragraph 2 in section 1 of article III of the bylaws. As stated in the explanation of the proposed amendment, its purpose is to exclude from active membership chain stores, mail-order houses, gas stations, hardware stores, etc., which offer nursery stock for sale as an incident to their major merchandising efforts.

Another amendment, added two paragraphs to section 6 of article III, on termination of membership, so that "delinquent members not resigning before September 1 shall become liable for a full year's dues," and "resigned members or members dropped for nonpayment of dues may regain membership only through the regular procedure of applying for membership as a new member, provided all debts to the association have been paid."

As reported in the preceding issue, no action was taken on the proposed amendment to section 2 of article IV, as to the composition of the board of governors. Only one proposal was placed before the conven-

tion, and its provision for proxy votes caused its tabling. The board of governors passed a motion that the executive committee submit plans for different voting procedures to the chapters by next January, such plans to be submitted to the vote of the convention next July.

## Committee Reports.

In accordance with action taken at the preceding A. A. N. convention, at Miami Beach, the trade practice and ethics committee submitted ten rules for adoption, adherence to which would be mandatory on members for maintenance of membership in good standing. An additional eleven rules were proposed as practices to be encouraged to promote sound business methods. In his address to the convention July 23, Lowell B. Mason, member of the Federal Trade Commission, Washington, D. C., gave the green light to the adoption of such codes by trade associations. At the close of his talk, however, he commented upon the legal and abstruse phraseology of the proposed rules and suggested that they be rewritten in words of one syllable that nurserymen would readily understand.

Besides the thanks of the convention to the arrangement committees and commendation of the cooperation of officers and the board of governors in the past year, the committee on resolutions urged continuation of the useful work started in the meeting of nurserymen's association secretaries, on the day preceding the convention. John D. Siebenthaler presented the report of the committee on resolutions, in behalf of the chairman, Ray Hartman. For the committee on official messages and convention addresses, Ken Law recommend-



Some of the Nurserymen Who Visited the Arnold Arboretum on A.A.N. Convention Tour, July 23.

ed their study and dwelt on points of importance.

Arthur H. Hill performed the final ceremony of presenting to the retiring president, Richard H. Jones, the past president's pin of the A. A. N.

#### Coming Conventions.

In behalf of next year's convention, at Milwaukee, Wis., Thomas S. Pinney again appeared for the Wisconsin Nurserymen's Association, and Alvin Monroe spoke for the Milwaukee chamber of commerce. Space has been reserved at the Hotel Schroeder, Milwaukee, for the week of July 18, 1948.

San Francisco has invited the convention for 1949, the members were reminded by Ray Hartman. Space at the Palace hotel there has been tentatively booked for the week of July 17, 1949.

The historical year of 1950, when the A. A. N. will celebrate its seventy-fifth anniversary, will be marked by a convention at Chicago, and space at the Hotel Stevens has been booked for the week beginning July 16, 1950.

Inasmuch as region 5 is in line to entertain the A. A. N. in 1951, Scott Wilmore presented an early invitation of Denver, Colo.

#### Executive Committee Actions.

When the executive committee of the A. A. N. met July 25, following the close of the convention, it took action on a number of matters, chief of which were the following:

Reappointed Howard C. Taylor as treasurer for 1947-48.

Appointed Thomas S. Pinney, of the Evergreen Nursery Co., Sturgeon Bay, Wis., and Secretary of the Wisconsin Nurserymen's Association, as general chairman for the 1948 convention, at the Hotel Schroeder, Milwaukee, with Charles Hawks, of the Hawks Nursery Co., Wauwatosa, Wis., as treasurer.

Appointed as a special committee to review the A. A. N. by-laws and report any recommendations to the executive committee, P. J. van Melle, chairman; John Fraser, Jr., and Miles W. Bryant.

Continued the special committee on gift certificates for the purpose of putting the proposal of the committee, as amended by board action, into operation as soon as possible.

Offered all help possible to the southern members in regard to the problems raised by the white-fringed beetle, recommending to the Southern Nurserymen's Association the appointment of a committee to keep the A. A. N. executive committee fully informed.

## Fruit Varieties Survey

Under the direction of its associate secretary, John T. Bregger, Clemson, S. C., the American Pomological Society, with the support of the American Association of Nurserymen, is conducting a series of surveys compiling data on the varieties of various fruits now preferred by commercial growers and the varieties to be preferred for future commercial planting in different sections of the country. Reports on varieties of apples, pears, peaches and strawberries have previously been published, and July 23 at the A. A. N. convention at Boston Mr. Bregger presented survey data on cherry, plum and grape varieties, which are summarized below.

To compile the survey data the A. P. S. sent growers lists of varieties of the fruit being surveyed and asked them to check the varieties now being grown, the approximate per cent or acreage of each variety now being grown, the varieties that have been grown but would be recommended for discard, varieties that would be preferred for new commercial planting and the per cent of each that would be planted.

#### Cherry Varieties.

Of the sour cherries, Montmorency has been preferred in all sections of the country covered by the survey—north Atlantic states, north central states, southern states and western states—and growers indicate a preference for it for future planting also. In the southern states it is the only variety for which data was given. English Morello is second choice in the north Atlantic states and the north central states, but would be discarded in the north central and southern states. In the west it was given second place for future planting. Early Richmond rates third, except in the west, where it is second, but would be discarded in the future in most sections.

In the north Atlantic states, Schmidt, Windsor, Black Tartarian and Napoleon (Royal Anne) are the top-ranking varieties of sweet cherries now being grown, and in most cases they would be preferred for future use in that section, as well as in the north central states. In the north Atlantic states, these four varieties are followed in favor by Bing, Lambert, Seneca, Yellow Spanish and Governor Wood. However, the last four were checked for heavy discard. Windsor is to be preferred for future planting.

Data for the north central states shows that eight varieties, Windsor, Schmidt, Napoleon, Black Tartarian, Bing, Governor Wood, Lambert and Yellow Spanish, are being grown extensively now. Heavy discard is indicated for the last three and medium discard for Black Tartarian. The rest would be on the list for future planting, led by Windsor and Schmidt.

Data on sweet cherry varieties in the southern states were insufficient, and no details are yet available.

In the western states only seven varieties are now being used to great extent, but they are different from those preferred in other sections. These seven varieties are in order of preference: Napoleon, Bing, Lambert, Black Republican, Waterhouse, Governor Wood and Black Tartarian. Of these, only four would be retained for future use, according to the growers surveyed. They are Napoleon, Bing, Black Republican and Lambert. Growers were equally divided for and against planting Waterhouse, but would discard the remaining varieties.

#### Plum Varieties.

The plum variety survey was made for the same sections of the country and results varied radically for each part of the country. Seventy varieties were listed on the chart sent to growers for checking. In the north Atlantic states, Italian Prune, Burbank, Stanley and Shropshire Damson, German Prune and Bradshaw are used now. Of these, the first four would be retained for future planting, with Italian Prune remaining at the head of the preference list. The other two varieties, German Prune and Bradshaw, were indicated for heavy discard.

In the north central states, data show that eleven varieties are now planted extensively. Besides the six favored in the north Atlantic states, Monarch, Reine Claude (Green Gage), Lombard, French Damson and Yellow Egg are being planted. Five of these eleven, Stanley, Shropshire Damson, Italian Prune, German Prune and Monarch, would be on the future list. Growers were evenly divided for and against discarding Bradshaw and Reine Claude. Medium discard is indicated for Burbank, French Damson and Yellow Egg, and heavy discard is shown for Lombard and also for the following seven varieties which are not even now being given favor: Waneta, Red June,

[Continued on page 45.]

# British Association's Activities

As representative of the British Horticultural Trades Association, I think it will not be inappropriate to give you some details of our activities.

Our Horticultural Trades Association was founded by the late Charles Pearson, nurseryman of Lowdham, Nottinghamshire, about fifty years ago, when he and six other nurserymen met at the Crystal Palace. Today its membership is 1,300 and includes all the leading firms of nurserymen and seedsmen in the British Isles. The amount of the membership fee is based upon the total amount of wages paid to his employees by the member, the minimum subscription being 2 guineas, or approximately \$8. The president is elected for one year. Our present president, however, Alfred Fromow, of the Nurseries, Windlesham, has retained this office for four years, as he proved a very capable negotiator with our government during the war period. He relinquishes office in September, when Philip Sutton, of Sutton & Sons, seed merchants, of Reading, will become president. Generally, nurserymen occupy the presidency three years out of four. The secretary is Mr. Du Cann, a very capable barrister, and his secretary is Miss Wheeler, who also knows every move on the board. The association has recently been sectionalized, and we now have the general nursery stock section, fruit tree section, rose tree section, herbaceous and alpine plant section, forestry section, wholesale seed section, retail seed section and the bulb section. There are also provincial and affiliated branches in Great Britain, Northern Ireland and Eire.

The executive council, which meets approximately once a month, is made up as follows: Ten members are elected by a vote at the annual general meeting; each section is allowed to send two members of its committee; each provincial branch also sends two members to the council; the council has also power to accept six more members. It is a labor of love; nobody is paid anything, apart from the secretary and his staff. We run on economical lines, but in spite of this, a lot of time is devoted by members to the association, which has, no doubt, done a lot for the welfare of the trade in the British Isles. Our main program is as follows:

1. Pricing. This at its inception came in for a lot of adverse criticism,

Excerpts from a talk by T. Hilling, of T. Hilling & Co., Chobham, Woking, England, representing the British Horticultural Trades Association, July 24, at the annual convention of the American Association of Nurserymen.

and many members threatened to leave if price recommendations were continued. You will understand that most of those who complained were the smaller growers, who were unable to compete with the publicity of the largest firms when supply exceeded demand. At present, however, now that there are insufficient goods to go around, the smaller growers are often charging higher prices than the bigger firms are for their stock. Pricing is now considered one of the association's most important activities, and the recommendations laid down by the respective pricing committees are appreciated, more particularly by those small growers who previously complained, as they often have difficulty in assessing the true value of their products. Each section recommends its own minimum prices, and the council rarely interferes.

2. Tariffs. At present, with one or two exceptions, all imported nursery stock is subject to an import duty of 1 pound per hundredweight, but discussions are now going on in Geneva, Switzerland, on this subject and there will doubtless be modifications regarding tariffs resulting from their deliberations in that city.

3. Import of nursery stock, quota system. Since the war, because of the Horticultural Trades Association's successful negotiations with the government, nurserymen only are now allowed to import foreign nursery stock. This is operated on an acreage basis. At present, small nurserymen with not more than five acres

of nursery stock are allowed to import a maximum of 25 pounds' worth per acre only. Big nurserymen can import only 20 pounds' worth per acre. The government agreed to this in the first instance in order to enable the British nurserymen to rehabilitate their nurseries after the great depredations caused by destruction of stock and lack of propagation during the war. So far this quota system has worked to the satisfaction of the British nurserymen and dealt successfully with this problem. Before the war, and particularly before the imposition of tariffs in 1932, our country was a dumping ground for a large amount of continental nursery stock. It reached such a degree that some continental growers were sending it to auctioneers, who offered it to the highest bidders on market squares throughout the country. This, of course, caused a lot of dissatisfaction in the nursery trade, as the stock was often disposed of at only a fraction of its actual cost.

Our secretary, Mr. Du Cann, is constantly in touch with the ministry of agriculture. Considerable government control was imposed upon our industry during the war, and even at present, owing to the scarcity of coal, nurserymen are required to devote seventy-five per cent of their heated greenhouse propagating space to the cultivation of food crops before they can obtain fuel for the remaining twenty-five per cent. Most of us who still use farm horses find it desirable to grow our own oats, the ration of corn for farm horses being inadequate, and most large nurserymen still grow a good acreage of potatoes.

The secretary, being a barrister, is

[Continued on page 47.]



Ladies' auxiliary officers and hostesses at Boston A.A.N. convention: Mrs. Leonard Riggs, Mrs. Seth Kelsey, Mrs. Howard Burton, Mrs. Edmund Mezitt, Mrs. L. C. Vanderbrook, Mrs. Peter Cascio and Mrs. Donald Wyman.



# Prize Designs of Small Home Grounds

Entries in the competition for designs of small home grounds sponsored by the American Nurseryman and the National Landscape Nurserymen's Association were judged on general appropriateness, practicality and attractiveness of the home grounds; the regional suitability of the plant material selected; the originality of the design and the consideration for the effort needed in the upkeep of the property, as well as the initial outlay.

Shown on the opposite page is a

plan for a Colonial house in zone 3 which won an honorary mention for its designer, Lawrence D. Hopper, Champaign, Ill., whose comments appear below. While most of the plans showed only where the flower gardens were to be located, Mr. Hopper has also specified in a detail of the perennial border, at the upper right of his plan, the various types of perennials to be used.

According to the rules of the contest, the Colonial house was to be located on a lot 50x100 feet, gently

rolling in front and reasonably level to the back lot line. A single-car detached garage could be located as desired, with access from the front. The family to occupy the house and lot was to be a middle-aged couple who took special pride in their surroundings. While their grown children had moved away, they returned on frequent visits. The only specification made by the couple for the landscape plan was that it include a vegetable garden that later might be converted to a flower garden.

## COLONIAL STYLE HOUSE, ZONE 3.

In designing the small home grounds the landscape architect must adhere to the principles of good design. There must be unity between plants and their surroundings, harmony of line, form, color and texture. Proper scale relationship between plants and house must also be given thorough study. The designer of this plan has made every attempt to select plants that will present a well balanced and harmonious effect.

The front of the lot is more or less public property; therefore it must be handled in such a manner that neighboring properties are given equal opportunities as far as views are concerned. It is difficult to give proper consideration to this area when the over-all street view is unknown. It was with this in mind that the designer refrained from using extensive border plantings. The foundation planting, like the house itself, is well balanced and purposely made simple and direct. In many instances foundation plantings have been overdone; frequently they smother the foundation, block windows, crowd walks and doorways. This type of planting is a failure as far as good design is concerned, for the first principle of good design is simplicity.

The narrow area east of the house is a difficult space to handle. It is too small to permit the planting of shrubs that would form a suitable screen and also permit circulation; therefore, instead of a plant screen, a 4-foot slat fence with English ivy, *Hedera helix*, trained on it is used to create the desired effect.

The rear part of the lot is designed to give privacy, utility and, to some extent, a place to putter around with flowers. An outdoor fireplace, or barbecue pit, forms an

## BY LAWRENCE D. HOPPER, CHAMPAIGN, ILL.

interesting unit around which outdoor social gatherings can take place. "Snapped edge" Tennessee Crab Orchard limestone is suggested for both fireplace and terrace. As it is close to the house, the terrace provides the ideal place to erect a portable clothes-drying reel. Evergreen winter-creeper, *Euonymus radicans* *vegetus*, can be trained on the garage wall to relieve the monotony of the plain surface. The perennial border is included to give the client an outlet for leisure time and also to add color and interest to the garden. It has been designed to give a spring, summer and fall-flowering effect and is balanced in mass, color and texture. The Japanese yew, *Taxus cuspidata*, is placed behind the perennial border to give the colors a complementary background; a dark background behind flowers intensifies the colors appreciably.

The vegetable garden, compost pit and coldframe are placed at the rear of the lot so that they can be screened from the rest of the yard, as these are hard to maintain at the same standards that are required for good lawns, shrubbery and flowers. This area is screened from view by climbing roses on trellises. Fruit trees, shrubs and vines used on the sides and rear border of the vegetable garden were selected for their fruiting qualities, since many people wish to grow a few berries and small fruits for their own use.

There are more exotic plants than have been used in this plan; however, the choice should create a pleasing composition in character with the colonial home, conservative but ample.

Lawrence D. Hopper.

## NEW SPRAYS KILL GLADIOLUS THRIPS.

Recent experiments have shown that either DDT or benzene hexachloride is more effective than the tartar emetic spray for control of gladiolus thrips in gardens or commercial plantings, according to the United States Department of Agriculture.

Floyd F. Smith and A. L. Boswell, of the bureau of entomology and plant quarantine, made comparisons

at the Beltsville research center, Md., last season and found the new treatments enough better to make the change in the recommendations worthwhile.

Either of the new insecticides can be used either as a dust or as a spray. The DDT emulsion sprays were more effective than a wettable powder spray. Treatments were applied once a week, in the strength recommended by the manufacturer. Treatment was suspended before the time of bloom.

The household spray, with DDT

dissolved in kerosene or a similar solvent, should not be used on gladioli.

## POPLAR BLUFF NURSERY.

Poplar Bluff, Mo., is the new name of the Sunny Slope Gardens, which Joe and M. Steffan recently purchased. They have discontinued the M. Steffan Nursery, which they formerly operated at Grandin, Mo. On the twelve acres of the new nursery they plan to grow evergreens, fruit trees and some flowers.



**PLANTING KEY****PERENNIALS**

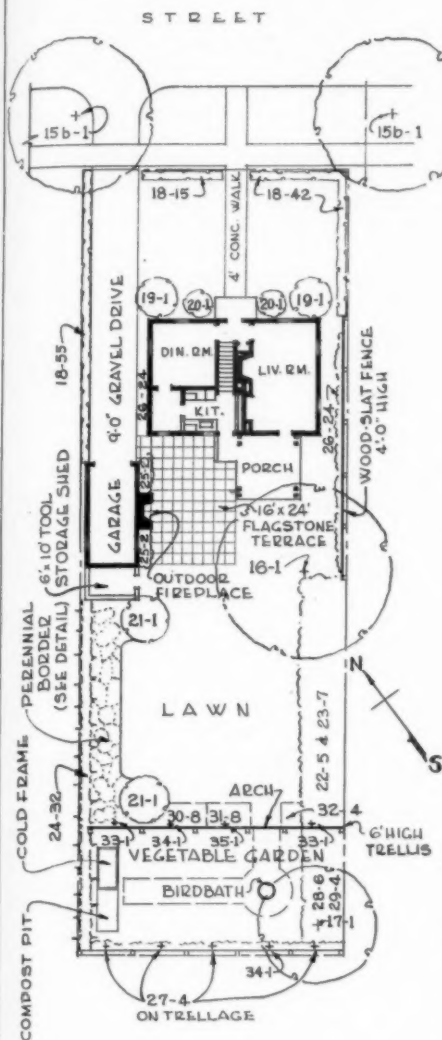
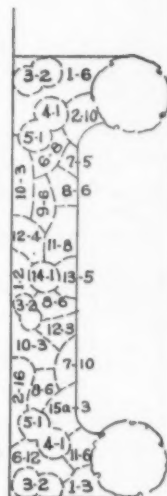
- 1 Chrysanthemum, Pink Cushion;  
Cushion Chrysanthemum
- 2 Digitalis ambigua; Foxglove
- 3 Delphinium, Galahad Series; Larkspur
- 4 Paeonia, Sarah Bernhardt; Peony
- 5 Paeonia, Le Cygne; Peony
- 6 Campanula latifolia macrantha;  
Canterbury Bells
- 7 Alyssum saxatile compactum;  
Basket of gold
- 8 Aquilegia coerulea; Columbine
- 9 Gaillardia grandiflora; Blanket Flower
- 10 Delphinium Summer Skies Series;  
Larkspur
- 11 Anthemis tinctoria; Yellow Marguerites
- 12 Chrysanthemum September Gold;  
Dwarf Pompon Chrysanthemum
- 13 Monarda didyma; Cambridge Scarlet;  
Bergamot
- 14 Paeonia, Richard Carvel; Peony
- 15a Aster lilac time; Dwarf Aster

**TREES**

- 15b Ginkgo biloba; Maidenhair Tree
- 16 Acer rubrum; Red Maple
- 17 Prunus cerasus, var; Montmorency; Sour Cherry

**SHRUBS, VINES**

- 18 Ligustrum ibota; Iboata Privet
- 19 Philadelphus lemoinei Avalanche;  
Lemoine Mockorange
- 20 Philadelphus coronarius nanus; Dwarf Mockorange
- 21 Viburnum tomentosum; Doublefile viburnum
- 22 Clethra alnifolia; Sweet Pepperbush
- 23 Viburnum dentatum; Arrow-wood
- 24 Taxus cuspidata; Japanese Yew
- 25 Euonymus radicans vegetus; Wintercreeper
- 26 Hedera helix; English Ivy
- 27 Vitis labrusca, var; Concord, Grape
- 28 Ribes rubrum, var; Cumberland Red, Red Currant
- 29 Ribes hirtellum, var; Houghton; Gooseberry
- 30 Rosa—Polyantha Rose; Donald Prior
- 31 " " " Cameo
- 32 " " " Red Velvet
- 33 Rosa—Climbing Rose; The New Dawn
- 34 " " " Silver Moon
- 35 " " " Paul's Scarlet

**DETAIL  
OF  
PERENNIAL  
BORDER****PLAN**

SCALE

**FRONT ELEVATION**

SCALE 1/16" = 1'-0"

**ZONE-3**

# Coming Events

## MEETING CALENDAR.

August 15 and 16, New Jersey Association of Nurserymen, Cumberland hotel, Bridgeton.

August 17 to 19, Virginia Nurserymen's Association, George Mason hotel, Alexandria.

August 18 to 22, National Shade Tree Conference, Hotel Cleveland, Cleveland, O.

August 21 and 22, Michigan Association of Nurserymen, Warm Friend tavern, Holland.

August 26 and 27, Kentucky Nurserymen's Association, Gibson hotel, Cincinnati, O.

August 28 and 29, Ohio Nurserymen's Association, Mansfield-Leland hotel, Mansfield.

September 3 to 5, Texas Association of Nurserymen, Galvez hotel, Galveston.

September 25 and 26, Mississippi Florists' and Nurserymen's Association, Buena Vista hotel, Biloxi.

September 29 to October 1, California Association of Nurserymen, U. S. Grant hotel, San Diego.

October 23 to 25, American Horticultural Council, Hollenden hotel, Cleveland, O.

## NEW JERSEY DATES.

The summer meeting of the New Jersey Association of Nurserymen will be held August 15 and 16 at the Cumberland hotel, Bridgeton.

## NEBRASKA FIELD DAY.

The field day of the Nebraska Nurserymen's Association this year will be held at the experiment station at North Platte, so that members may see the trials of hardy chrysanthemums. The time is not definitely set, but will probably be early September.

## KENTUCKY PLANS.

The Kentucky Nurserymen's Association will hold its summer meeting August 26 and 27, at the Gibson hotel, Cincinnati, O.

A visit will be made to Spring Grove cemetery to view the results of years of research with plants and grasses by Cliff Runyan. Trips to some of the nurseries and landscape offices in the northern Kentucky area are also being planned.

Highlighting the entertainment will be a luncheon and a dinner August 26. A. L. Heger, of the Dixie View Nurseries, Covington, is in charge of arrangements.

## GARDENERS TO MEET.

The thirty-third annual convention of the National Association of Gardeners will be held August 19 to 21 at the Hotel Commodore, New

York, N. Y. The program will be under the direction of the western Long Island branch of the association. Frederick Sparks, of Oakdale, is chairman of arrangements.

## NUT GROWERS MEET.

The Northern Nut Growers' Association, Inc., will meet September 3 to 5, at the Ontario Agricultural College, Guelph, Ontario, Canada. A program featuring talks on the various phases of nut tree growing is being planned and visits to local plantings are scheduled.

Visitors are urged to bring nuts to exhibit at the meeting, including new and old varieties, promising seedlings and hybrids. Accommodations for those attending will be in the campus dormitories, and reservations should be sent to J. A. Eccles, dean of residence at the college.

## ENTERTAINMENT FEATURES CALIFORNIA CONVENTION.

Additional features have been added to the entertainment program of the California Association of Nurserymen's convention, September 29 to October 1, at the U. S. Grant hotel, San Diego, by Paul Kleinsorge, chairman of the program committee.

A get-together buffet dinner will be held the opening night, and a trip to Tia Juana, Mexico, with dinner at the Jai Alai cafe, is planned for the following evening. The San Diego zoo and Balboa park will be visited during the convention.

An excursion on San Diego bay, affording an opportunity for seeing several of the navy's ships, will be enjoyed Wednesday afternoon. Those interested in deep sea fishing may contact the Point Loma Nursery, 1150 Greenwood avenue, San Diego 6, and arrangements will be made.

F. G. James, president of the San Diego chapter, heads the convention committee. Working with him are: H. G. Spaulding, entertainment; Warren Parker, program and printing; Louis Kniffing, publicity; Walter Andersen, hotel reservations; Mrs. Giacoli, ladies' entertainment; A. P. Carlton, tours; Mrs. A. P. Carlton, menu, and Paul Kleinsorge, speakers.

Business sessions will be held Monday and Wednesday, morning and afternoon. Principal speakers for these meetings have not yet been announced.

Invitations to attend the convention are being sent to firms in Oregon, Washington, Nevada and Arizona. Reservations should be sent before September 22 to Walter Andersen, Walter Andersen Nursery, 3860 Rosecrans avenue, San Diego 10, and should include date of arrival and the number in the party.

## WISCONSIN INSPECTION. AIMS TO PROTECT PUBLIC.

Besides conducting the customary inspection of nurseries and enforcement of insect control measures, the Wisconsin plant industry division, under E. L. Chambers, chief, seeks to protect the public in its purchases of nursery stock through stores and dealers.

Work of the division is described in detail in the biennial report of the Wisconsin department of agriculture for 1945 and 1946, just published. During the biennium 610 Wisconsin nurserymen were certified in 1945 and 625 in 1946. They paid approximately \$6,000 each year in fees. For many years the nursery inspection fee has been \$5 for the first acre or fraction thereof, \$1 for each additional acre up to ten and 50 cents per acre for additional acreage.

Stores and dealers licensed at \$5 were 320 in 1945 and 300 in 1946. The care taken for the public's protection is described in the report in these paragraphs:

"To prevent misrepresentation of nursery stock by unscrupulous agents, all persons soliciting orders for nursery stock are required to provide themselves with a license and present it when requested by the prospective customer. The public is urged by radio and newspaper releases to insist on seeing the agent's credentials before purchasing from a stranger. No agent is licensed without the recommendation of the nursery he is representing; 600 such licenses were issued during 1945, and 600 in 1946. Of these, only about one-half represented Wisconsin nurserymen, the majority of them representing out-of-state firms.

"With the growing interest in beautifying the home and the scarcity of certain types of nursery stock during the war, there have been more and more stores taking out licenses to handle nursery stock. This served not only as a leader to bring customers into the store to purchase other merchandise, but also was a profitable product to handle because of its availability when other types of material were off the market. Many of these store locations were not aware

of the requirements, and considerable checking was required to keep them complying with the nursery inspection laws. The principal violations included their failure to take out licenses, attach an inspection tag on each sale, purchase from inspected sources only, sell only hardy stock as such, and to store and display their stock in a vigorous growing condition.

"Other outstanding violations were the misrepresentation of the variety of apples on a super apple tree, and the sale of types of trees and shrubs which would not survive in our climate. The super apple was claimed to have been budded with four different varieties, which with the original tree would provide five different kinds of apples. An examination of the wrapped buds showed that no bud was actually inserted and that the budding was simply faked. These trees, originating from an out-of-state nursery, were being sold by a chain of stores, and investigation disclosed that the nursery had contracted and paid for the budding of the trees and was unaware of the misrepresentation until it was brought to their attention. To right their wrong, they allowed the stores that had purchased the trees much more than they had paid for the trees to advertise and reimburse their customers."

#### VINE WEEVIL ON TAXUS.

For protection of yews against the black vine weevil, spraying the lower part of the plants in early June is recommended, using lead arsenate four pounds to 100 gallons of water or fifty per cent DDT wettable powder two pounds to 100 gallons of water. Such a spray kills many of the adults, which feed on the lower leaves before they lay eggs. A poison bait is useful, also.

The eggs begin hatching in July, and the grubs are now working down through the soil to the roots where they will be by September 15. The grubs can be poisoned by scattering arsenate of lead, seven and one-half pounds to 1,000 feet of row, over the root area. According to the recommendation of the Waltham field station of the Massachusetts State College, the poison should be scratched in the soil, which should be watered well if water is available. If not, the rain will have to be relied upon to get the lead arsenate down to the root region by the middle of September.

**EGGERS EVERGREEN HOME** is a new business started at Walla Walla, Wash., by William D. Eggers, who was formerly associated with the Walla Walla Floral Co.

## Simple Device for Spraying

By Dr. C. L. Hamner and Dr. Loren D. Tukey

Michigan State College

The rapid extension of chemical weeders has emphasized the need for more versatile spray equipment. Widespread use of 2,4-D as a selective herbicide on lawns, golf courses, parkways, pastures, cornfields, etc., has greatly increased the need for an economical lightweight hand sprayer.

To meet this need, a relatively inexpensive and easily operated apparatus has been constructed by the Michigan State College horticulture department, consisting of a common 5-gallon hand air compressor sprayer mounted on a garden cultivator

proximately eighteen inches apart. It covers a swath eight to ten feet wide. By merely changing the size opening of the spray nozzle, delivery rates can be controlled so that it is possible to cover several acres a day, using as low as six gallons per acre of concentrated spray material. It can be readily adapted mechanically to the spraying of corn, gladioli and other crops with 2,4-D where it is desirable to keep as much of the spray as possible off the crop. This can be done by extending pipes down from the boom and placing fan-type nozzles near the surface of the ground. By proper adjustment of the nozzles, control of the fan spray can be obtained. It is quite likely that further improvements could be added to make the sprayer even more useful.

In addition to the use of 2,4-D this type sprayer could readily be used for applications of other materials in concentrated form, such as insecticides, fungicides and hormones.

It is believed that this new adaptation of hand sprayer will have large-scale use where concentrated sprays are used. Even where dilute sprays are used, it should prove definitely better than the other hand sprayers.



A hand sprayer mounted on a garden cultivator with a spray boom equipped with a fan type nozzle.

equipped with a boom. Necessary alterations are small and inexpensive.

2,4-D has generally been used at the rate of one to one and one-half pounds per acre and has been applied in water at 150 to 200 gallons per acre. It has been recognized that the amount of water used is not of importance, but rather the amount of chemical applied. The trend has recently been to use concentrated materials, eliminating the use of large amounts of water. Reports have been received from experiment stations that successful applications of 2,4-D in as low a volume as five to ten gallons per acre are possible where concentrated sprays are used.

Low water volumes and oil emulsion sprays have greatly increased the usefulness of small tank sprayers for both large and small area plots.

By placing a small spray tank on a hand cultivator and by the addition of a spray boom, the practical application of chemicals by hand sprayers can be greatly extended. The spray boom is made of 1/8-inch pipe with four to six fan-type nozzles, obtained from the Monarch Mfg. Co., Philadelphia, Pa., which are ap-

#### ST. LOUIS GROUP MEETS.

The Landscape and Nurserymen's Association of Greater St. Louis met July 14 at the home of Mr. and Mrs. Eugene Waldbart, of the A. Waldbart & Sons Nursery Co. Seventy-five members and their wives attended the meeting, which was the first social gathering of the season.

Chairman John Sanders presided, and Secretary William Weber, of the William A. Weber Nursery, Kirkwood, Mo., was also present, after several weeks in the hospital. The chief discussion was on the subject of keeping better nursery records. Refreshments were served.

The Sanders Nursery, Allenton, Mo., was selected for the August meeting.

ALL nurserymen of Oklahoma City, Okla., are taking part in the city-wide DDT spraying campaign for control of insects. Clyde Bowers, of the state board of agriculture office, is assisting in the work.



# WHOLESALE PRICE LIST

1887 - 1947

60 YEARS OF CONTINUED, UNINTERRUPTED, DEPENDABLE SERVICE

Established 1887

by J. H. H. Boyd

**FOREST NURSERY CO., INC.****McMINNVILLE, TENNESSEE**

WHOLESALE ONLY — NOTHING SOLD AT RETAIL

**VISITORS WELCOME**

J. R. Boyd, Pres.

Telephone 2

SPECIAL SUMMER LIST of a few items we will have for next season. Grades offered are subject to how stock makes digging time. Regular fall list will be mailed in September offering a complete list of what we will have to offer including greens, Hardy Shrubs, Hedge Plants, Ornamental and Shade Trees and Fruit Trees. All stock of first-class quality and up to

Orders accepted subject to any injury or loss from causes beyond our control. We are careful to keep varieties labeled name and will replace, on proper proof, any stock that may prove otherwise, free of charge, or refund the purchase price, mutually agreed that we shall not be liable for any amount greater than the purchase price paid us.

No claims will be considered unless made in writing within ten days after receipt of goods.

TERMS AND CONDITIONS: Three (3) per cent discount and free packing for cash with order; two (2) per cent, ten days 30 days net from date of invoice. Open accounts to those with approved credit ratings. Twenty-five (25) per cent cash required shipment on C.O.D. orders. Packing charges at cost on open account and C.O.D. orders.

We will be glad to quote on your want list. Special prices on carload or truckload orders.

## HARDY DECIDUOUS FLOWERING SHRUBS

S.—Seedlings; C.—Rooted Cuttings; Tr.—Transplanted; Br.—Branched; L.O.—Lining Out; Div.—Divisions.

**ACANTHOPANAX PENTAPHYLLUM.**

Five-leaved Aralia.

	Per 10	Per 100	Per 1000
18 to 24 inches, Tr., well Br.	\$1.50	\$12.00	.....
2 to 3 feet, Tr., well Br.	2.00	15.00	.....

**ALMOND, PRUNUS GLANDULOSA.**Double Pink-flowering Almond.  
(Own Root).

	Per 10	Per 100	Per 1000
12 to 18 inches, Tr., well Br.	2.50	20.00	.....
18 to 24 inches, Tr., well Br.	3.00	25.00	.....
2 to 3 feet, Tr., well Br.	3.50	30.00	.....

**ALTHAEA, HIBISCUS SYRIACUS.**

Shrub Althaea.

Varieties:			
Amplissimus, Double Red.			
12 to 18 inches, Tr.	1.00	8.00	\$ 60.00
18 to 24 inches, Tr.	1.50	12.00	100.00
2 to 3 feet, Tr.	2.00	15.00	125.00
3 to 4 feet, Tr.	2.50	20.00	.....

Ardens, Double Violet.			
6 to 12 inches, C.	.40	3.00	25.00
12 to 18 inches, C.	.50	3.50	30.00
18 to 24 inches, C.	.60	5.00	40.00

Boule de Feu, Double Red.			
6 to 12 inches, C.	.40	3.00	25.00
12 to 18 inches, C.	.50	4.00	30.00
18 to 24 inches, C.	.60	5.00	40.00
2 to 3 feet, Tr.	2.50	15.00	125.00
3 to 4 feet, Tr.	2.50	20.00	.....

Roses, S., Single Flowers.			
4 to 6 inches, S.	.50	4.00	.....
6 to 12 inches, S.	.80	7.00	.....
12 to 18 inches, S.	1.25	10.00	.....
18 to 24 inches, S.	1.50	12.00	.....

**BENZON AESTIVALE.**

Spice Bush.

	Per 10	Per 100	Per 1000
6 to 12 inches, S.	.50	4.00	30.00
12 to 18 inches, S.	.60	5.00	40.00
18 to 24 inches, S.	.70	6.00	50.00
2 to 3 feet, Tr.	2.50	20.00	.....
3 to 4 feet, Tr.	3.00	25.00	.....

**BERBERIS THUNBERGI.**

Green-leaved Barberry.

	Per 10	Per 100	Per 1000
4 to 6 inches, S.	1.50	12.50	.....
6 to 9 inches, S.	.40	3.00	25.00
9 to 12 inches, 2-yr., Br. S.	.70	6.00	50.00
12 to 18 inches, 2-yr., Br. S.	.80	7.00	60.00
18 to 24 inches, 2-yr., Br. S.	1.25	10.00	.....

**BERBERIS THUNBERGI ATROPUR-PUREA.**

Red-leaved Barberry.

	Per 10	Per 100	Per 1000
4 to 6 inches, S.	\$0.50	\$ 3.50	\$ 30.00
6 to 9 inches, S.	.70	5.00	45.00
9 to 12 inches, S.	1.25	10.00	80.00

**CALYCANTHUS FLORIDUS.**

Sweet Shrub.

	Per 10	Per 100	Per 1000
4 to 6 inches, S.	.50	3.00	25.00
6 to 12 inches, S.	.60	4.00	35.00
12 to 18 inches, S.	.70	6.00	50.00
18 to 24 inches, S., whips	1.25	10.00	80.00

**CARAGANA ARBORESCENS.**

Siberian Pea Tree.

	Per 10	Per 100	Per 1000
4 to 6 inches, S.	2.00	15.00	.....
6 to 12 inches, S.	3.00	25.00	.....
12 to 18 inches, S.	4.00	30.00	.....

**CEPHALANTHUS OCCIDENTALIS.**

Buttonbush.

	Per 10	Per 100	Per 1000
6 to 12 inches, C.	.40	3.50	30.00
12 to 18 inches, C.	.50	4.00	35.00
18 to 24 inches, 2-yr. C., well Br.	.60	10.00	80.00
2 to 3 feet, 2-yr. C., well Br.	2.00	15.00	.....

**CORNUS AMOMUM.**

Silky Dogwood.

	Per 10	Per 100	Per 1000
6 to 12 inches, C.	.30	2.50	20.00
12 to 18 inches, C.	.40	3.00	25.00
18 to 24 inches, C.	.50	4.00	35.00
18 to 24 inches, Tr., well Br.	9.00	80.00	.....
2 to 3 feet, Tr., well Br.	15.00	125.00	.....

**CORNUS STOLONIFERA.**

Red Osier Dogwood.

	Per 10	Per 100	Per 1000
6 to 12 inches, S.	.20	1.25	10.00
12 to 18 inches, S.	.30	2.00	15.00
18 to 24 inches, S.	.40	3.00	20.00
2 to 3 ft. S.	.50	4.00	25.00

**CORYLUS AVELLANA.**

European Hazelnut.

	Per 10	Per 100	Per 1000
12 to 18 inches, well Br.	2.00	15.00	.....
2 to 3 feet, well Br.	3.00	25.00	.....

**CYDONIA JAPONICA.**

Japanese Quince.

	Per 10	Per 100	Per 1000
4 to 6 inches, S.	.30	2.00	18.00
6 to 12 inches, S.	.40	3.00	25.00
12 to 18 inches, S.	.50	4.00	35.00
18 to 24 inches, S.	.70	6.00	50.00

**CYDONIA JAPONICA RUBRA.**

Japanese Quince.

True upright red.

	Per 10	Per 100	Per 1000
6 to 12 inches, C.	\$1.00	\$ 8.00	.....
12 to 18 inches, C.	1.50	12.00	.....
12 to 18 inches, Tr.	2.00	15.00	.....
18 to 24 inches, Tr.	4.00	35.00	.....
2 to 3 feet, Tr.	5.00	40.00	.....

**CYTISUS SCOPARIUS.**

Scotch Broom.

	Per 10	Per 100	Per 1000
6 to 12 inches, S.	.60	5.00	.....
12 to 18 inches, S.	.75	6.50	.....
18 to 24 inches, S.	1.25	10.00	.....
2 to 3 feet, S.	1.50	12.50	.....
2 to 3 feet, 2-yr., well Br.	5.00	40.00	.....
3 to 4 feet, 2-yr., well Br.	6.00	50.00	.....

**DEUTZIA SCABRA.**

Varieties:

Candida, Double White.			
Crenata, Double Pink.			
Pride of Rochester, Double Rose.			
6 to 12 inches, C.	.35	2.50	.....
12 to 18 inches, C.	.40	3.50	.....
18 to 24 inches, C.	.50	4.00	.....
12 to 18 inches, well Br.	.70	6.00	.....
18 to 24 inches, well Br.	1.25	10.00	.....
2 to 3 feet, well Br.	1.50	12.00	.....
3 to 4 feet, well Br.	2.00	15.00	.....

**FORSYTHIA FORTUNEL.**

Fortune Forsythia.

	Per 10	Per 100	Per 1000
6 to 12 inches, C.	.30	2.50	.....
12 to 18 inches, C.	.35	3.00	.....
18 to 24 inches, C.	.40	3.50	.....
2 to 3 feet, C.	.60	5.00	.....
18 to 24 inches, well Br.	1.50	12.00	.....
2 to 3 feet, well Br.	2.00	15.00	.....
3 to 4 feet, well Br.	2.50	17.50	.....

**FORSYTHIA INTERMEDIA.**

Border Forsythia.

	Per 10	Per 100	Per 1000
6 to 12 inches, C.	.30	2.50	.....
12 to 18 inches, C.	.35	3.00	.....
18 to 24 inches, C.	.40	3.50	.....
2 to 3 feet, C.	.60	5.00	.....
18 to 24 inches, well Br.	1.50	12.00	.....
2 to 3 feet, well Br.	2.00	15.00	.....
3 to 4 feet, well Br.	2.50	17.50	.....

**FORSYTHIA SIEBOLDIANA.**

	Per 10	Per 100	Per 1000
6 to 12 inches, C.	.30	2.50	.....
12 to 18 inches, C.	.35	3.00	.....
18 to 24 inches, C.	.40	3.50	.....

**FORSYTHIA SPECTABILIS.**

	Per 10	Per 100	Per 1000
6 to 12 inches, 1-yr. C.	.50	3.50	.....
12 to 18 inches, 1-yr. C.	.60	4.00	.....
18 to 24 inches, well Br.	1.50	12.00	.....
2 to 3 feet, well Br.	2.00	15.00	.....



## WHOLESALE PRICE LIST

## FOREST NURSERY CO.

## HARDY DECIDUOUS FLOWERING SHRUBS—Continued

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1350

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THIA VIRIDISSIMA.	Per 10	Per 100	Per 1000
4 to 6 inches, 1-yr. C.	\$0.30	\$2.50	\$20.00
6 to 12 inches, 1-yr. C.	.35	3.00	25.00
12 to 18 inches, 1-yr. C.	.40	3.50	30.00

MELIS VIRGINIANA.	Per 10	Per 100	Per 1000
Hazel.			
4 to 6 inches, 1-yr. C.	3.00	25.00	
6 to 12 inches, 1-yr. C.	4.50	40.00	
12 to 18 inches, 1-yr. C.	6.00	50.00	

ANGEA ARBORESCENS.	Per 10	Per 100	Per 1000
Native Hydrangea.			
4 to 6 inches, 1-yr. C.	.30	2.50	20.00
6 to 12 inches, 1-yr. C.	.40	3.50	30.00
12 to 18 inches, 1-yr. C.	.50	4.50	40.00

ANGEA PANICULATA GRANDI-	Per 10	Per 100	Per 1000
LA. Peegee Hydrangea.			
4 to 6 inches, 1-yr. C.	.70	6.00	
6 to 12 inches, 1-yr. C.	.80	7.00	
12 to 18 inches, 1-yr. C.	1.25	10.00	

RICUM PROLIFICUM.	Per 10	Per 100	Per 1000
St. John's-wort.			
4 to 6 inches, 1-yr. C.	.25	1.50	12.00
6 to 12 inches, 1-yr. C.	.35	2.50	20.00
12 to 18 inches, 1-yr. C.	.45	3.50	30.00
18 to 24 inches, 1-yr. C.	1.50	10.00	80.00
2 to 3 feet, 1-yr. C.	2.00	12.50	100.00

ASTROEMIA INDICA. PINK.	Per 10	Per 100	Per 1000
Myrtle, Pink and Red.			
4 to 6 inches, 1-yr. C.	2.00	15.00	
6 to 12 inches, 1-yr. C.	2.50	20.00	
12 to 18 inches, 1-yr. C.	2.50	20.00	
18 to 24 inches, 1-yr. C.	3.00	25.00	
2 to 3 feet, 1-yr. C.	4.00	30.00	

STRUM AMURENSE.	Per 10	Per 100	Per 1000
Amur River North Privet.			
4 to 6 inches, 1-yr. C.	.30	2.50	20.00
6 to 12 inches, 1-yr. C.	.40	3.00	25.00
12 to 18 inches, 1-yr. C.	.50	4.00	30.00
18 to 24 inches, 1-yr. C.	.70	6.00	50.00
2 to 3 feet, 1-yr. C.	.85	7.50	70.00
4 to 6 inches, 2-yr. C.	1.00	9.00	85.00
6 to 12 inches, 2-yr. C.	1.50	12.50	100.00
12 to 18 inches, 2-yr. C.	2.00	17.50	

percent discount allowed from these prices on Amur River North Privet in lots of 10,000 or more for orders placed by September 1.

STRUM IBOLIUM.	Per 10	Per 100	Per 1000
Amur Privet.			
4 to 6 inches, 1-yr. C.	.30	2.50	20.00
6 to 12 inches, 1-yr. C.	.40	3.00	25.00
12 to 18 inches, 1-yr. C.	.50	4.00	30.00
18 to 24 inches, 1-yr. C.	.70	6.00	50.00
2 to 3 feet, 1-yr. C.	.85	7.50	70.00
4 to 6 inches, 2-yr. C.	1.00	9.00	85.00

STRUM BUTSIFOLIUM.	Per 10	Per 100	Per 1000
Privet.			
4 to 6 inches, 1-yr. C.	.20	1.25	10.00
6 to 12 inches, 1-yr. C.	.25	2.00	15.00
12 to 18 inches, 1-yr. C.	.35	2.50	20.00
18 to 24 inches, 1-yr. C.	.35	2.50	20.00
2 to 3 feet, 1-yr. C.	.35	2.50	20.00
4 to 6 inches, 2-yr. C.	.50	4.00	
6 to 12 inches, 2-yr. C.	.60	5.00	
12 to 18 inches, 2-yr. C.	.60	5.00	
18 to 24 inches, 2-yr. C.	.70	6.00	
2 to 3 feet, 2-yr. C.	1.00	9.00	

STRUM OVALIFOLIUM.	Per 10	Per 100	Per 1000
Privet.			
4 to 6 inches, 1-yr. C.	.25	1.75	15.00
6 to 12 inches, 1-yr. C.	.35	2.50	20.00
12 to 18 inches, 1-yr. C.	.45	4.00	30.00
18 to 24 inches, 1-yr. C.	.55	5.00	40.00
2 to 3 feet, 1-yr. C.	.55	5.00	40.00
4 to 6 inches, 2-yr. C.	.70	6.00	50.00
6 to 12 inches, 2-yr. C.	.80	7.00	60.00
12 to 18 inches, 2-yr. C.	1.00	9.00	80.00

percent discount allowed from above prices on California Privet in lots of 10,000 or more for orders placed by September 1.

LIGUSTRUM REGELIANUM.	Per 10	Per 100	Per 1000
Regel Privet.			
4 to 6 inches, 1-yr. C.	\$0.70	\$5.00	
6 to 12 inches, 1-yr. C.	.80	6.00	
12 to 18 inches, 1-yr. C.	1.00	8.00	
18 to 24 inches, 1-yr. C.	2.00	15.00	
2 to 3 feet, 1-yr. C.	3.00	22.00	

LIGUSTRUM SINENSE.	Per 10	Per 100	Per 1000
Amur River South Privet.			
4 to 6 inches, 1-yr. C.	.50	3.50	
6 to 12 inches, 1-yr. C.	.80	5.00	
12 to 18 inches, 1-yr. C.	1.00	6.00	
18 to 24 inches, 1-yr. C.	1.25	8.00	
2 to 3 feet, 1-yr. C.	2.00	18.00	
4 to 6 inches, 2-yr. C.	3.00	25.00	
6 to 12 inches, 2-yr. C.	4.00	30.00	
12 to 18 inches, 2-yr. C.	4.50	40.00	
18 to 24 inches, 2-yr. C.	.60	5.00	45.00
2 to 3 feet, 2-yr. C.	.80	7.00	60.00
4 to 6 inches, 3-yr. C.	1.00	9.00	80.00
6 to 12 inches, 3-yr. C.	1.50	12.00	100.00

LIGUSTRUM VULGARE.	Per 10	Per 100	Per 1000
European Privet.			
4 to 6 inches, 1-yr. C.	.35	2.50	20.00
6 to 12 inches, 1-yr. C.	.40	3.00	25.00
12 to 18 inches, 1-yr. C.	.50	4.00	

LONICERA FRAGRANTISSIMA.	Per 10	Per 100	Per 1000
Winter Honeysuckle.			
4 to 6 inches, 1-yr. C.	.40	3.00	25.00
6 to 12 inches, 1-yr. C.	.45	3.50	30.00
12 to 18 inches, 1-yr. C.	.50	4.00	35.00
18 to 24 inches, 1-yr. C.	.90	8.00	70.00
2 to 3 feet, 1-yr. C.	1.25	10.00	90.00
4 to 6 inches, 2-yr. C.	1.50	12.50	

LONICERA MORROWI.	Per 10	Per 100	Per 1000
Morrow's Honeysuckle.			
4 to 6 inches, 1-yr. C.	.30	2.50	20.00
6 to 12 inches, 1-yr. C.	.40	3.00	25.00
12 to 18 inches, 1-yr. C.	.50	4.00	30.00
18 to 24 inches, 1-yr. C.	.70	6.00	50.00
2 to 3 feet, 1-yr. C.	.85	7.50	70.00
4 to 6 inches, 2-yr. C.	1.00	9.00	85.00
6 to 12 inches, 2-yr. C.	1.50	12.50	100.00
12 to 18 inches, 2-yr. C.	2.00	17.50	

PHILADELPHUS CORONARIUS.	Per 10	Per 100	Per 1000
Sweet Mock Orange.			
4 to 6 inches, 1-yr. C.	.40	3.50	30.00
6 to 12 inches, 1-yr. C.	.50	4.00	35.00
12 to 18 inches, 1-yr. C.	.60	5.00	45.00
18 to 24 inches, 1-yr. C.	1.00	8.00	
2 to 3 feet, 1-yr. C.	1.25	10.00	

RHUS CANADENSIS (Aromatica).	Per 10	Per 100	Per 1000
Fragrant Sumac.			
4 to 6 inches, 1-yr. C.	1.50	12.50	
6 to 12 inches, 1-yr. C.	2.00	15.00	
12 to 18 inches, 1-yr. C.	2.50	20.00	
18 to 24 inches, 1-yr. C.	3.00	25.00	

RHUS COPALINA.	Per 10	Per 100	Per 1000
Shining Sumac.			
4 to 6 inches, 1-yr. C.	.20	1.25	10.00
6 to 12 inches, 1-yr. C.	.25	1.50	12.00
12 to 18 inches, 1-yr. C.	.30	2.00	15.00

SPHAELE ARGUTA.	Per 10	Per 100	Per 1000
Garland Spiraea.			
4 to 6 inches, 1-yr. C.	.60	4.00	
6 to 12 inches, 1-yr. C.	.70	5.00	
12 to 18 inches, 1-yr. C.	.90	7.50	
18 to 24 inches, 1-yr. C.	2.00	15.00	
2 to 3 feet, 1-yr. C.	2.50	20.00	

SPHAELE BILLIARDI ALBA.	Per 10	Per 100	Per 1000
White Spike Bloom.			
4 to 6 inches, 1-yr. C.	.40	3.00	25.00
6 to 12 inches, 1-yr. C.	.50	4.00	30.00
12 to 18 inches, 1-yr. C.	.60	4.50	40.00
18 to 24 inches, 1-yr. C.	.70	6.00	50.00
2 to 3 feet, 1-yr. C.	1.00	8.00	70.00

SPHAELE BILLIARDI ROSEA.	Per 10	Per 100	Per 1000
Billiard Spiraea.			
4 to 6 inches, 1-yr. C.	\$0.50	\$4.00	
6 to 12 inches, 1-yr. C.	.60	5.00	
12 to 18 inches, 1-yr. C.	.80	7.00	

SPHAELE CALLOSA ROSEA.	Per 10	Per 100	Per 1000
Pink Fortune Spiraea.			
4 to 6 inches, 1-yr. C.	.50	3.50	30.00
6 to 12 inches, 1-yr. C.	.60	5.00	40.00
12 to 18 inches, 1-yr. C.	.70	6.00	50.00

SPHAELE OPULIFOLIA (Physocarpus).	Per 10	Per 100	Per 1000
Ninebark.			
4 to 6 inches, 1-yr. C.	.50	3.50	30.00
6 to 12 inches, 1-yr. C.	.60	5.00	40.00
12 to 18 inches, 1-yr. C.	.70	6.00	50.00

SPHAELE PRUNIFOLIA.	Per 10	Per 100	Per 1000
Bridal Wreath.			
4 to 6 inches, 1-yr. C.	3.00	25.00	
6 to 12 inches, 1-yr. C.	4.00	35.00	
12 to 18 inches, 1-yr. C.	5.00	45.00	

SPHAELE REEVESIANA.	Per 10	Per 100	Per 1000
Single White Flower.			
4 to 6 inches, 1-yr. C.	.40	3.00	
6 to 12 inches, 1-yr. C.	.50	4.00	
12 to 18 inches, 1-yr. C.	.60	5.00	

SPHAELE THUNBERGI.	Per 10	Per 100	Per 1000
Thunberg Spiraea.			
4 to 6 inches, 1-yr. C.	.70	5.00	
6 to 12 inches, 1-yr. C.	.80	7.50	
12 to 18 inches, 1-yr. C.	2.00	15.00	
2 to 3 feet, 1-yr. C.	2.50	20.00	

SPHAELE VANHOUTTEI.	Per 10	Per 100	Per 1000
Vanhoutte Spiraea.			
4 to 6 inches, 1-yr. C.	.35	2.50	20.00
6 to 12 inches, 1-yr. C.	.40	3.00	25.00
12 to 18 inches, 1-yr. C.	.50	4.00	35.00
18 to 24 inches, 1-yr. C.	.50	4.00	35.00
2 to 3 feet, 1-yr. C.	.65	5.50	50.00
4 to 6 inches, 2-yr. C.	.75	6.50	60.00

SYMPHORICARPOS VULGARIS.	Per 10	Per 100	Per 1000
Coralberry.			
4 to 6 inches, 1-yr. C.	2.00	15.00	
6 to 12 inches, 1-yr. C.	2.50	20.00	
12 to 18 inches, 1-yr. C.	3.50	30.00	
18 to 24 inches, 1-yr. C.	.60	5.00	40.00
2 to 3 feet, 1-yr. C.	1.00	9.00	80.00

SYRINGA PERSICA.	Per 10	Per 100	Per 1000
Persian Lilac, Purple.			
4 to 6 inches, 1-yr. C.	.60	5.00	
6 to 12 inches, 1-yr. C.	.70	6.00	
12 to 18 inches, 1-yr. C.	.80	7.00	

VIBURNUM TOMENTOSUM Plicatum.	Per 10	Per 100	Per 1000
Japanese Snowball.			
4 to 6 inches, 1-yr. C.	1.00	8.00	
6 to 12 inches, 1-yr. C.	1.25	10.00	
12 to 18 inches, 1-yr. C.	2.00	17.50	
18 to 24 inches, 1-yr. C.	3.00	25.00	
2 to 3 feet, 1-yr. C.	6.00		

VITEX AGNUS CASTUS.	Per 10	Per 100	Per 1
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# FOREST and SHADE TREES

## ACER DASycARPUM. Silver Maple.

	Per 10	Per 100	Per 1000
6 to 12 inches, S.....	\$ 1.00	\$ 8.00	
12 to 18 inches, S.....	\$0.15	1.25	10.00
18 to 24 inches, S.....	.20	1.50	12.50
2 to 3 feet, S.....	.30	2.00	18.00
3 to 4 feet, S.....	.40	3.00	25.00
4 to 5 feet, S.....	.60	5.00	40.00

## ACER NEGUNDO. Box Elder.

6 to 12 inches, S.....	.20	1.25	10.00
12 to 18 inches, S.....	.25	1.50	12.50
3 to 4 feet, S.....	.50	3.00	
4 to 5 feet, 2-yr. Tr.....	5.00	40.00	
5 to 6 feet, 2-yr. Tr.....	6.00	50.00	

## ACER RUBRUM. Scarlet Maple.

6 to 12 inches, S.....	.30	2.00	15.00
12 to 18 inches, S.....	.35	2.50	20.00
18 to 24 inches, S.....	.45	3.00	25.00

## ACER SACCHARUM.

Sugar, or Hard Maple.			
4 to 6 inches, S.....		1.25	10.00
6 to 12 inches, S.....	.30	2.00	15.00
12 to 18 inches, S.....	.35	2.50	20.00
18 to 24 inches, S.....	.50	4.00	30.00

## AESCULUS OCTANDRA.

Yellow Buckeye.			
6 to 12 inches, S.....	.50	4.00	30.00
12 to 18 inches, S.....	.60	5.00	40.00
18 to 24 inches, S.....	1.00	8.00	
2 to 3 feet, S.....	2.00	15.00	

## ALBIZZIA JULIBRISSIN.

Mimosa Tree.			
6 to 12 inches, S.....	.50	4.00	
12 to 18 inches, S.....	.75	5.00	
18 to 24 inches, S.....	.85	6.00	
2 to 3 feet, S.....	1.50	10.00	
3 to 4 feet, S.....	2.50	20.00	

## ASIMINA TRILOBA. Pawpaw.

6 to 12 inches, S.....	.60	5.00	
12 to 18 inches, S.....	.70	6.00	

## CATALPA SPECIOSA.

Northern Catalpa.			
6 to 12 inches, S.....	.15	.90	7.00
12 to 18 inches, S.....	.20	1.25	10.00
18 to 24 inches, S.....	.30	2.00	16.00
2 to 3 feet, S.....		3.00	22.00

## CELTIS MISSISSIPPIENSIS.

Southern Hackberry.			
6 to 12 inches, S.....	.25	2.00	15.00
12 to 18 inches, S.....	.30	2.50	20.00

## CELTIS OCCIDENTALIS.

Northern Hackberry.			
6 to 12 inches, S.....	.25	1.50	12.50
12 to 18 inches, S.....		2.00	15.00

## CERCIS CANADENSIS.

American Redbud.			
4 to 6 inches, S.....		1.50	10.00
6 to 12 inches, S.....	.25	2.00	15.00
12 to 18 inches, S.....	.30	2.50	20.00
18 to 24 inches, S.....	.45	3.50	30.00
2 to 3 feet, S.....	.60	5.00	45.00
3 to 4 feet, S, Br.....	1.25	10.00	90.00
3 to 4 feet, Tr.....	4.00	35.00	
4 to 5 feet, Tr.....	6.00	50.00	
5 to 6 feet, Tr.....	8.00	70.00	
6 to 8 feet, Tr.....	10.00	90.00	

## CLADRASITIS LUTEA.

Yellowwood.			
4 to 6 inches, S.....	.35	2.50	20.00
6 to 12 inches, S.....	.45	3.50	30.00
12 to 18 inches, S.....	.60	5.00	

## CORNUS FLORIDA RUBRA.

Pink-flowering Dogwood.			
18 to 24 inches, Tr.....	15.00	125.00	
2 to 3 feet, Tr.....	20.00	175.00	

## DIOSPYROS VIRGINIANA.

American Persimmon.			
4 to 6 inches, 1-yr. S.....	.30	2.00	
6 to 12 inches, 1-yr. S.....	.40	3.00	25.00
12 to 18 inches, 1-yr. S.....	.50	4.00	35.00

## FAGUS AMERICANA.

American Beech.			
	Per 10	Per 100	Per 1000
4 to 6 inches, S.....	\$ 1.25	\$ 10.00	
6 to 12 inches, S.....	\$0.25	1.50	12.50
12 to 18 inches, S.....	.30	2.00	15.00
18 to 24 inches, S.....	.40	2.50	20.00
2 to 3 feet, S.....	.50	3.50	30.00

## FRAXINUS AMERICANA. White Ash.

FRAXINUS LANCEOLATA. Green Ash.			
6 to 12 inches, S.....	1.00	8.00	
12 to 18 inches, S.....	.25	1.50	12.50
18 to 24 inches, S.....	.30	2.50	20.00
2 to 3 feet, S.....	.40	3.00	25.00

## GINKGO BILOBA.

Maidenhair Tree.			
4 to 6 inches, S.....	1.25		
6 to 9 inches, S.....			
9 to 12 inches, S.....	2.00		
12 to 18 inches, S.....	2.50		
5 to 6 feet, Tr.....	12.50		

## GLEDITSIA TRIACANTHOS.

Honey Locust.			
4 to 6 inches, S.....	.50	6.00	
6 to 12 inches, S.....	.20	1.00	8.00
12 to 18 inches, S.....	.25	1.50	12.50

## GLEDITSIA TRIACANTHOS INERMIS.

Thornless Honey Locust.			
6 to 12 inches, S.....	.20	1.25	10.00
12 to 18 inches, S.....	.25	1.50	12.50
18 to 24 inches, S.....	.35	2.50	20.00

## GYMNOCLADUS DIOICUS.

Kentucky Coffee Tree.			
12 to 18 inches, S.....	1.50		
18 to 24 inches, S.....	2.00		
2 to 3 feet, Tr.....	3.00		
3 to 4 feet, Tr.....	4.00		
4 to 5 feet, Tr.....	10.00		

## HICORIA LACINOSA. Shellbark Hickory.

HICORIA OVATA. Shagbark Hickory.			
6 to 12 inches, S.....	.80	6.00	50.00
12 to 18 inches, S.....	1.50	10.00	80.00
18 to 24 inches, S.....	5.00	40.00	
2 to 3 feet, S.....	6.00	50.00	
3 to 4 feet, S.....	12.50	100.00	
4 to 5 feet, S.....	17.50	150.00	

## JUGLANS NIGRA.

Black Walnut.			
6 to 12 inches, S.....	.35	2.50	20.00
12 to 18 inches, S.....	.50	3.50	30.00
18 to 24 inches, S.....	.60	5.00	40.00
2 to 3 feet, S.....	.80	7.00	60.00
3 to 4 feet, S.....	3.00	20.00	100.00
4 to 5 feet, S.....	4.00	30.00	200.00
5 to 6 feet, S.....	5.00	40.00	

## JUGLANS SIEBOLDIANA.

Japanese Walnut.			
6 to 12 inches, S.....	1.25	10.00	
12 to 18 inches, S.....	2.00	15.00	
18 to 24 inches, S.....	3.00	25.00	
2 to 3 feet, S.....	4.00	35.00	
3 to 4 feet, S.....	5.00	45.00	

## KOELREUTERIA PANICULATA.

Golden-Rain Tree.			
6 to 12 inches, S.....	1.00	8.00	
12 to 18 inches, S.....	1.50	10.00	

## LIRIODENDRON TULIPIFERA.

Tulip Tree.			
4 to 6 inches, S.....	1.00	8.00	
6 to 12 inches, S.....	.20	1.25	10.00
12 to 18 inches, S.....	.25	1.50	12.00
18 to 24 inches, S.....	.30	2.00	15.00
2 to 3 feet, S.....	.35	2.50	20.00
3 to 4 feet, S.....	.50	4.00	35.00
3 to 4 feet, Tr.....	4.00	35.00	
4 to 5 feet, Tr.....	6.00	50.00	
5 to 6 feet, Tr.....	7.00	60.00	
6 to 8 feet, Tr.....	10.00	75.00	
8 to 10 feet, Tr.....	12.50	100.00	

## MORUS ALBA TATARICA.

Russian Mulberry.			
6 to 12 inches, S.....	.20	1.00	8.00
12 to 18 inches, S.....	.30	2.00	15.00
18 to 24 inches, S.....	.40	2.50	20.00
2 to 3 feet, S.....	.50	3.50	30.00

## NYSSA SYLVATICA. Black Gum.

	Per 10	Per 100
6 to 12 inches, S.....	\$0.50	\$ 4.00
12 to 18 inches, S.....	.60	5.00

## OXYDENDRON ARBOREUM.

Sourwood.			
6 to 12 inches, S.....	.25	1.50	
12 to 18 inches, S.....		2.00	
18 to 24 inches, S.....		3.00	

## PLATANUS OCCIDENTALIS.

American Plane Tree.			
4 to 5 feet, Tr.....	6.00	50.00	
5 to 6 feet, Tr.....	7.00	60.00	
6 to 8 feet, Tr.....	10.00	90.00	

## POPULUS NIGRA ITALICA.

Lombardy Poplar.			
6 to 12 inches, C.....	.20	1.50	
12 to 18 inches, C.....	.30	2.00	
18 to 24 inches, C.....	.40	3.00	
2 to 3 feet, C.....	.50	3.50	
3 to 4 feet, C.....	.60	4.50	
4 to 5 feet, C.....	.70	6.00	

## QUERCUS PRINUS.

Chestnut Oak.			
6 to 12 inches, S.....	.50	4.00	
12 to 18 inches, S.....	.60	5.00	
18 to 24 inches, S.....	.70	6.00	
2 to 3 feet, S.....	1.00	8.00	

## ROBINIA PSEUDOACACIA.

Black Locust.			
4 to 6 inches, S.....		.60	
6 to 12 inches, S.....		.70	
12 to 18 inches, S.....		1.25	
18 to 24 inches, S.....	.25	1.50	
2 to 3 feet, S.....	.30	2.00	
3 to 4 feet, S.....	.50	4.00	
4 to 5 feet, S, Br.....	1.00	8.00	
5 to 6 feet, S, Br.....	2.50	20.00	
6 to 8 feet, S, Br.....	3.50	30.00	

## SALIX BABYLONICA.

Weeping Willow.			
12 to 18 inches, C.....	.35	2.50	
18 to 24 inches, C.....	.40	3.00	
2 to 3 feet, C.....	.50	4.00	

## SALIX DISCOLOR.

Pussy Willow.			
6 to 12 inches, C.....	.30	2.00	
12 to 18 inches, C.....	.35	2.50	
18 to 24 inches, C.....	.40	3.00	

## SALIX VITELLINA.

Golden Willow.			
6 to 12 inches, C.....	.30	2.00	
12 to 18 inches, C.....	.40	2.50	
18 to 24 inches, C.....	.50	3.50	
2 to 3 feet, C.....	.60	4.50	
3 to 4 feet, C.....	.75	6.00	

## SOPHORA JAPONICA.

Chinese Scholar Tree.			
6 to 12 inches, S.....	.70	6.00	
12 to 18 inches, S.....	.90	7.50	
18 to 24 inches, S.....	1.00	9.00	

## TILIA AMERICANA.

American Linden.			
6 to 12 inches, S.....	.50	4.00	
12 to 18 inches, S.....	.60	5.00	
18 to 24 inches, S.....	.70	6.00	
2 to 3 feet, S.....	1.00	8.00	
3 to 4 feet, Tr, Br.....	4.00	35.00	
4 to 5 feet, Tr, Br.....	5.00	45.00	
5 to 6 feet, Tr, Br.....	7.00		

## ULMUS AMERICANA.

American Elm.			
6 to 12 inches, S.....		.50	
12 to 18 inches, S.....	.20	1.25	
18 to 24 inches, S.....	.30	2.00	
2 to 3 feet, S.....	.40	2.50	

## WHOLESALE PRICE LIST

## FOREST NURSERY CO.

## VINES and CREEPERS

ELOPSIS QUINQUEFOLIA.			
Virginia Creeper.			
	Per 10	Per 100	Per 1000
Root Seedlings	80.35	83.00	825.00
S. No. 1.	1.00	8.00	
S. No. 2.	.75	6.00	

ELOPSIS VEITCHI (Tricuspidata).			
Asian Ivy.			
	Per 10	Per 100	Per 1000
S. No. 1.	.40	3.00	25.00
S. No. 2.	.30	2.00	15.00
S. No. 3.	.20	1.50	10.00
S. No. 1.	.70	6.00	50.00
S. No. 2.	.60	5.00	40.00

TOLOCHIA TOMENTOSA.			
Indian Pipe Vine.			
	Per 10	Per 100	Per 1000
S. No. 1.	.35	2.50	20.00
S. No. 2.	.30	2.00	15.00

ONIA CAPREOLATA.			
Passive (Evergreen).			
	Per 10	Per 100	Per 1000
L. O. No. 1.	.40	3.00	25.00
L. O. No. 2.	.35	2.50	20.00

BIGNONIA RADICANS.			
Trumpet Creeper.			
	Per 10	Per 100	Per 1000
6 to 12 inches, 1-yr. S.	80.30	82.00	815.00
12 to 18 inches, 1-yr. S.	.40	3.00	25.00
No. 2.			
18 to 24 inches, 2-yr.	6.00	50.00	
No. 1.	7.00	60.00	

CELASTRUS ORBICULATUS.			
Oriental Bittersweet.			
	Per 10	Per 100	Per 1000
6 to 12 inches, S.	.35	2.50	20.00
12 to 18 inches, S.	.40	3.00	25.00
18 to 24 inches, S.	.50	4.00	30.00
12 to 18 inches, Tr. Br.	.70	6.00	50.00
18 to 24 inches, Tr. Br.	1.00	8.00	70.00
2 to 3 feet, Tr. Br.	1.25	10.00	90.00

CLEMATIS VIRGINIANA.			
Virgin's-bower.			
	Per 10	Per 100	Per 1000
L. O., S. No. 1.	1.25	10.00	
L. O., S. No. 2.	1.00	8.00	

LONICERA JAPONICA HALLIANA.			
Hall's Japanese Honeysuckle.			
	Per 10	Per 100	Per 1000
Small L. O. Div.	.90	7.00	
Medium L. O. Div.	1.25	10.00	
2-yr. Tr., No. 1.	.90	7.00	65.00
2-yr. Tr. No. 2.	.70	6.00	55.00
2-yr. Tr., No. 3.	.60	5.00	40.00

LONICERA SEMPERVIRENS.			
Scarlet Trumpet Honeysuckle.			
	Per 10	Per 100	Per 1000
Small, L. O.	80.35	82.50	820.00
Medium, L. O.	.40	3.00	25.00

LYCIUM CHINENSIS. Matrimony Vine.			
	Per 10	Per 100	Per 1000
6 to 12 inches, L. O.	.40	3.50	
12 to 18 inches, L. O.	.50	4.50	

VINCA MINOR. Common Periwinkle.			
	Per 10	Per 100	Per 1000
Small, L. O.	.15	1.00	7.00
Medium, L. O.	.20	1.25	10.00

VITIS AESTIVALIS. Summer Grape.			
VITIS CORDIFOLIA. Winter Grape.			
VITIS ROTUNDIFOLIA. Muscadine Grape.			
	Per 10	Per 100	Per 1000
6 to 12 inches, S.	.35	2.50	20.00
12 to 18 inches, S.	.40	3.00	25.00
18 to 24 inches, S.	.50	4.00	30.00

WISTARIA FRUTESCENS.			
American Wistaria.			
	Per 10	Per 100	Per 1000
1-yr. S., No. 3.	.80	6.00	
1-yr. S., No. 2.	1.00	8.00	
1-yr. S., No. 1.	1.25	10.00	

WISTARIA SINENSIS, BLUE.			
Chinese Wistaria.			
	Per 10	Per 100	Per 1000
1-yr. S., No. 3.	.80	6.00	
1-yr. S., No. 2.	1.00	8.00	
1-yr. S., No. 1.	1.25	10.00	

## FRUIT TREES

MULTIPLE APPLE			
	Per 10	Per 100	Per 1000
11/16-inch and up	81.50	8125.00	
9/16 to 11/16-inch	12.50	100.00	

APPLE			
1-year Grafts and Cut Back Whips			
	Per 10	Per 100	Per 1000
18 inches, Whips	81.50	812.00	8100.00
24 inches, Whips	1.75	15.00	125.00
3 feet, Whips	2.25	20.00	175.00
4 feet, Whips	3.50	30.00	250.00
5 feet, Whips	4.00	35.00	300.00

Varieties: Anoka, Courtland, Double Red, Jonathan, Red Northern Spy, Double Red, Mollies, Common Winesap, Early Harvest, Winter Bannan, Red Stayman Wine, Yellow Delicious, Grimes Golden.			
We will have some 2-year apples to offer after we get a checkup on our surplus.			

CHERRIES			
SOUR CHERRIES			
1-year, well branched.			
Sorted varieties, Budded on Mahaleb stock.			
		Per 10	Per 100
6.00	to 7/16-inch,		
7.50	8 feet.....	\$ 7.00	\$ 60.00
8.00	to 9/16-inch,		
	8 feet and up.....	10.00	85.00
	to 11/16-inch,		
	8 feet and up.....	11.50	100.00
	1-inch and up,		
	8 feet and up.....	12.50	115.00
4.00	ties: Early Richmond, Large Mont-		
5.00	ney, Sweet Black Tartarian.		
6.00	Cherries sold only in connection with		
8.00	value of other fruit trees.		
35.00			
45.00			
....			
FIGS—TEXAS EVERBEARING			
		Per 10	Per 100
	24 inches.....	\$1.75	\$15.00
	30 feet.....	2.25	20.00



# Plant Notes Here and There

By C. W. Wood

Some plants gain my affection by their brilliant performances, some by their long blooming periods, some by their ability to put on a show in the face of adversity and some by their quiet charm.

## Valeriana Supina.

The little valerian, *Valeriana supina*, from the Austrian Alps, is a splendid example of the last-named quality. Never brilliant, nor even showy, unless it is used in broad patches, it is one of late May's most charming offerings. It usually commences to bloom here in northern Michigan by May 20 and continues for several weeks. The stems may not be over two inches long when they begin to spread out their flat-topped clusters of pale rose-pink flowers, fragrant in the way of the ordinary garden heliotrope (*V. officinalis*). The stems are sometimes six inches high when the plant has finished its performance.

*V. supina* seems to be an uncommon plant in gardens and therefore, should make a good item for the grower of unusual plants and for the neighborhood nursery. It does well here in light soil enriched with leaf mold, in sun or part shade, requiring some watering in dry weather. It comes readily from seeds, which are sometimes listed by European dealers and occasionally appear in American plant lists.

## Pitchers Sage.

No time of the year offers better opportunities to work out pleasing pictures than does September with its glorious Pitchers sage, *Salvia azurea pitcheri*. Imagine, if you do not know the plant, 4-foot stems topped with long spikes of large gentian-blue flowers during September and into October, and you can still form only an inadequate idea of this sage's possibilities as a landscape plant. It seems too good to be true that all this beauty and usefulness is to be had without fuss or bother; the plant does well in any sunny spot that is well drained.

## Monarda.

Judged from any aspect, our native beebalm, or Oswego tea, *Monarda didyma*, is a fascinating plant. Its history, since it was introduced into English gardens "before 1752, by Peter Collinson, esquire," according to Aiton in *Hortus Kewensis*, is in-

teresting, even though it is obscure at times. Peter Collinson, who presented many American plants to the garden world, no doubt received this one from our celebrated John Bartram. The latter called it *Monard Oswegoensis*, and Barton connects that name, perhaps with reason, with the Indians' term for the plant, O-Gee-che, meaning fiery or flame flower.

It appears that Collinson's enthusiasm for our Oswego tea was generally shared by English gardeners of the time. In any event, Meehan quotes one old English writer as saying that it is "not only a very ornamental plant in gardens, but the scent of the leaves is very refreshing and agreeable to most people, and some are very fond of the tea made with the young leaves."

As its cultivation spread, its fame spread also, and we read much in its praise between the eighteenth and twentieth centuries. Interest in the plant appears to begin to wane after William Robinson praised it so highly as "a valuable plant to allow to run wild and take care of itself in the woods." Gardeners apparently concluded it was a weed. Why it

should be so lightly esteemed by moderns is not easily explained, for it possesses most of the good qualities one looks for in ornamental plants—fragrant foliage, showy flowers and an amiable disposition.

The natural habitats of *Monarda didyma*, which include moist woods and stream banks, suggest some of its uses in gardens, though it is not restricted to these situations. The spreading nature of the plant, which incidentally calls for frequent division and resetting in fresh soil, tells us that it is best in masses. Accordingly one finds that best effects are obtained when quite large groups are used. This may account for its lack of popularity at present when so many gardeners have the habit of using single plants of a kind. Parenthetically, nurserymen do their own pocketbooks, as well as their customers', a favor when they show by examples in their show gardens the advantages of using a plant in masses.

Planting in quite large groups is especially needed when one is working with the light-colored varieties like *salmonea*, with its soft salmon-pink flowers. However, this type and Cambridge Scarlet are quite

## LINING-OUT STOCK For Fall 1947 & Spring 1948

	Per 100	Per 1000
2000 <i>Acer palmatum atropurpureum</i> , 2-yr. sdgls., T. (field rows).....	\$50.00	\$450.00
20,000 <i>Berberis thunbergii</i> , 2-yr. sdgls., T. (field rows).....	10.00	80.00
20,000 <i>Berberis thunbergii atropurpurea</i> , 2-yr. sdgls., T. (field rows).....	12.00	100.00
1000 <i>Buxus</i> , Newport Blue, 2-yr. T., 6 to 8 ins.....	30.00	250.00
1000 <i>Chamaecyparis pisifera plumosa</i> , 2-yr. T., 10 to 12 ins.....	30.00	250.00
1500 <i>Chamaecyparis pisifera plumosa aurea</i> , 2-yr. T., 6 to 8 ins.....	30.00	250.00
1200 <i>Chamaecyparis pisifera plumosa lutescens</i> , 2-yr. T., 6 to 8 ins.....	30.00	250.00
1000 <i>Chamaecyparis squarrosa</i> , variety K & C, 2-yr. T., 6 to 8 ins.....	30.00	250.00
2500 <i>Cornus kousa</i> , 4-yr. T., 18 to 24 ins. (field rows).....	35.00	300.00
2500 <i>Cydonia japonica</i> , 1-yr. sdgls. 8 to 8 ins.....	6.00	50.00
1350 <i>Euonymus radicans carrieri</i> , 2-yr. T.....	30.00	250.00
500 <i>Juniperus excelsa stricta</i> , 2-yr. T., 6 to 9 ins. (field rows).....	40.00	.....
500 <i>Juniperus keiskei</i> , 2-yr. T., grafts, 12 to 15 ins. (field rows).....	60.00	.....
1000 <i>Pieris japonica</i> , 3-yr. TT., 8 to 10 ins. (field rows).....	50.00	.....
2000 <i>Pieris japonica</i> , 3-yr. TT., 6 to 8 ins. (field rows).....	40.00	350.00
4000 <i>Pieris japonica</i> , 2-yr. T., 4 to 6 ins.....	30.00	250.00
15,000 <i>Rhododendron hybrid</i> , 2-yr. T., sdgls., (beds).....	30.00	250.00
20,000 <i>Rosa multiflora japonica</i> , sdgls., 4 to 6 mm.....	3.00	25.00
30,000 <i>Rosa multiflora japonica</i> , sdgls., 3 to 4 mm.....	2.50	20.00
3000 <i>Taxus cuspidata</i> , spreading, 3-yr. T.....	35.00	300.00
3000 <i>Taxus cuspidata</i> , spreading, 2-yr. T.....	25.00	200.00
10,000 <i>Taxus cuspidata</i> , upright, 3-yr. sdgls.....	20.00	150.00
1000 <i>Taxus cuspidata nana (brevifolia)</i> , 3-yr. T.....	40.00	350.00
1500 <i>Taxus cuspidata nana (brevifolia)</i> , 2-yr. T.....	30.00	250.00
500 <i>Taxus cuspidata thayerae</i> , 3-yr. T.....	35.00	.....
1500 <i>Taxus cuspidata thayerae</i> , 2-yr. T.....	30.00	250.00
3000 <i>Taxus media haffieldi</i> , 3-yr. T.....	40.00	350.00
3000 <i>Taxus media haffieldi</i> , 2-yr. T.....	35.00	300.00
3000 <i>Taxus media hicksii</i> , 3-yr. T.....	35.00	300.00
3000 <i>Taxus media hicksii</i> , 2-yr. T.....	30.00	250.00
2500 <i>Taxus media microphylla</i> , 3-yr. T.....	35.00	300.00
2500 <i>Taxus media microphylla</i> , 2-yr. T.....	30.00	250.00
3500 <i>Thuja occidentalis nigra</i> , 2-yr. T.....	30.00	250.00
2500 <i>Thuja occidentalis pyramidalis</i> , 2-yr. grafts, 18 to 24 ins.....	60.00	500.00
3000 <i>Thuja orientalis aurea nana (biota)</i> , 2-yr. T., grafts, 8 to 10 ins.....	50.00	450.00

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Varieties marked (\*) are especially suited for cut flower purposes; those marked (†) are best suited for rockeries.

	Per 10	Per 100		Per 10	Per 100
<b>ACHILLEA (Yarrow).</b>			<b>HELENIUM (Helen's Flower).</b> Aug.-Oct.		
*Millefolium Crispum Beauty. Deep crimson-red. Does not bleach in sun.....	\$2.50	\$20.00	*Autumnale. Broad heads of yellow flowers..	2.00	15.00
<b>ACONITUM (Monkshood).</b>			*Autumnale Rubrum. Old gold with terra-cotta	2.25	17.50
*Spark's Variety. Deep blue, 4 to 5 ft. July-August .....	2.50	20.00	*Chippendale Orange. Copper and gold. Showy	2.50	20.00
<b>ANEMONE (Pasque Flower).</b>			*Moerhelm Beauty. Glowing brown-red. Extra	3.50	30.00
†Pulsatilla. Violet-purple. 9 to 12 ins. April-May .....	2.00	15.00	*Nanonum Coccineo-Braceum. Scarlet with brown shade. Early. 2 ft.....	2.50	20.00
<b>ARMERIA (Thrift).</b>			*Riverton Beauty. Pure lemon-yellow.....	2.00	15.00
*Glory of Holland. Clear, deep pink flowers of large size on tall stems. Extra.....	2.00	15.00	*Riverton Gem. Gold to wallflower-red.....	2.00	15.00
†Maritima Alba. Dwarf, pure white, 6 ins. June .....	2.00	15.00	<b>HELIOPSIS (Orange Sunflower).</b> All summer.		
<b>ASCLEPIAS (Butterfly Weed).</b>			*Scabra Excelsa. Rich chrome yellow, 3 ft.....	2.00	15.00
*Tuberosa. Bright orange. 2 ft. July-August..	2.00	15.00	*Scabra Gratissima. Full double golden yellow	2.50	20.00
<b>ASTER ALPINUS (Alpine Aster).</b>			*Scabra Incomparabilis. Large, rich golden yellow. Nearly double.....	2.50	20.00
*Wartburg Star. Large lilac-blue, 12 to 15 ins. Fine for cutting .....	2.00	15.00	*Scabra Magnifica. Deep golden yellow, semi-double. Excellent .....	2.50	20.00
<b>ASTER AMELUS (Mew. Dwarf).</b> August-flowering.			*Scabra Petula. Cadmium orange. Very large	3.00	25.00
Asterkonig (Aster King). Large soft Heliotrope. Abundant .....	3.00	25.00	<b>HIBISCUS (Mallow Marvel).</b>		
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Blue Baby. Semidouble, fine blue. Early....	3.00	25.00	<b>INCARVILLEA (Trumpet Flower).</b>		
Diana. Large, soft, semidouble pink.....	3.00	25.00	†Delavayi. Large trusses of rose-pink. Beautiful. 1-year-old plants.....	2.00	15.00
<b>ASTER NOVAEANGLIAE (New England Aster).</b> Fall.			†Grandiflora. Dull, fuchsia-purple, 1-year-old plants .....	2.00	15.00
Harringtons Pink. Clear pink. Exceptional..	2.25	17.50	<b>LYTHRUM (Loosestrife).</b>		
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Mulberry. Large pink with yellow center....	2.00	15.00	*The Beacon. Beautiful rose-red spikes.....	2.00	15.00
Red Cloud. Deep rose to red.....	2.00	15.00	<b>MERTENSIA (Blue Bells).</b>		
<b>ASTER NOVIBELGI (New York Aster).</b> Fall.			Virginea. Blue, fading to clear pink.....	1.75	12.00
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Telham Beauty. Large, pale Campanula-violet. 3 ft. June.....	2.25	17.50	<b>PLUMBAGO (Leadworth).</b>		
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<b>CHRYSANTHEMUM MAXIMUM (Double Shasta Daisy).</b>			<b>POTERIUM (Japanese Burnet).</b>		
*Diener's Hybrids. Fine mixture of frilled, single, semi and full double.....	2.50	20.00	*Obtusum. Tall graceful spikes of pink flowers, feathery leaves. All summer. Excellent..	3.00	25.00
*Esther Reed. Pure white. Full double.....	2.50	20.00	<b>RUDBECKIA (Golden Glow).</b>		
<b>COREOPSIS (Tickseed).</b>			*Laciniata Golden Globe. Flowers are solid and perfectly round. Double yellow.....	2.00	15.00
*Sunburst. Golden yellow. Semi and full double	2.00	20.00	<b>SCABIOSA (Blue Bonnet).</b>		
†Verticillata. Dwarf, fine leaved plant, covered with small single yellow flowers all summer	2.25	17.50	*Caucasica. Soft lavender, 2 ft. All summer	2.00	15.00
<b>DIANTHUS BARBATUS (Sweet William).</b>			<b>SEDUM (Stonecrop).</b>		
Homeland. Striking dark red with white center. Very pretty.....	2.00	15.00	†Spurium Purple Beauty. (New) Large umbels of beautiful deep red, 6 ins. July-Aug.	3.00	25.00
†Midget. Single, dwarf, ball-shaped in all colors. 2 to 4 ins. Pretty.....	2.00	15.00	<b>SIDALCEA (Greek Mallow).</b>		
<b>DIANTHUS (Cushion Type).</b>			*Candida. Stately flower spike of pure white, 2 to 3 ft. May-June.....	2.50	20.00
†Rose Dawn. Little cushion-shaped plant, covered with hundreds of large pink flowers of a vivid pink with white centers, 6 ins. Excellent .....	2.25	17.50	<b>THALICTRUM (Meadow Rue).</b>		
<b>DIANTHUS NANUS COMPACTUS (Spherical Pink).</b>			Adiantifolium. Fernlike foliage. White flower 2 ft. June .....	2.00	15.00
†Mrs. Dina Weller. (New). Globe-shaped plant of deep green foliage, perfectly round. The half-dollar size flowers are a delicate salmon pink, with bright crimson ring in center. All summer.....	3.00	25.00	*Dipterocarpum. Lovely mauve in large panicles, 4 to 5 ft. Fine for cutting.....	2.50	20.00
<b>DIELYTRA (Bleeding Heart).</b>			*Glaucum. Blue-grey leaves. Yellow flowers, 3 to 4 ft. July .....	2.00	15.00
Eximia. Pink, 16 ins. All summer.....	3.00	25.00	<b>TRADESCANTIA (Spiderwort).</b> New Varieties.		
Spectabilis. True old-fashioned variety, deep pink. June .....	5.50	45.00	Iris Fritchard. White ground, overlaid with pale violet .....	2.50	20.00
<b>EUPHORBIA (Spurge).</b>			James Stratton. Rich, pure deep purple....	2.00	15.00
*Polychroma. Large lemon-yellow flowers. Pretty foliage. May-June.....	2.25	17.50	James C. Weguelin. Porcelain-blue, Extra fine	2.00	15.00
<b>FUNKIA (Day Lily).</b>			Pauline. Cattleya-mauve. Delightful.....	2.00	15.00
*Subcordata Gr. fl. Large pure white flowers. Aug.-Sept. ....	4.00	35.00	<b>VIOLA (Tufted Pansy).</b>		
<b>GAILLARDIA (Blanket Flower).</b>			†Catharine Sharp. (New) Improved Jersey Gem. Pure, rich violet and a better blue. All summer .....	2.50	20.00
*Sun God. Large, pure yellow throughout. A beautiful cut flower. All summer.....	2.00	15.00	<b>VIOLA ODORATA (Sweet Violet).</b>		
			†Bicolor. Pure white with strong violet beard on each petal. Late flowering.....	2.00	15.00
			*Double Russian. Heavy, double, sweet scented flowers. Deep blue.....	2.50	20.00
			†Prince of Wales. One of the best of the older Violets. Deep blue.....	2.00	15.00
			*Rosina. Rose and pink shades. Very fragrant	2.50	20.00
			†Royal Robe. Large, deepest violet-blue. Fragrant .....	2.25	17.50
			*Semperflorens. Fragrant everblooming Violet. A fine Violet .....	2.25	17.50
			†Weller's Blue. The bluest variety we grow. Large flower on good stems.....	2.50	20.00
			*White Wonder. Large, single, pure white. Very fragrant and the best white variety..	2.00	15.00

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showy in smaller plantings, and the deep-colored forms, like the purple *violacea superba*, are pleasing in either large or small numbers in any situation where their shades are in harmony with their surroundings. The pinks and scarlets will be found especially effective against a dark background.

*Monarda* grows from eighteen inches in height, the usual stature of *M. salmonea* under ordinary treatment, to the three feet of *Cambridge Scarlet*, when it has plenty of moisture in good soil. Although the plants prefer moist situations and usually shade, they do quite well in any good garden soil, preferably one rich in humus. The named kinds are readily multiplied by division and the type comes easily from seeds.

#### Butterfly Weed.

A visit last week-end to a garden where I planted a large grouping of butterfly weeds ten or more years ago prompts a few words in praise of this splendid native. The plants came from a strain on which I worked for several years to secure a wide range of shades and they do not, therefore, make the best possible garden display, varying from creamy white and sulphur through yellows and oranges to crimson, but they do show that the plant, given good care, is far better than it is ordinarily thought to be. If you are acquainted with it only as it grows under the harsh conditions in nature, transfer a few plants to the nursery, where they will be given good care, and see for yourself that what I have said before in this column—that butterfly weed is generally appraised in gardens and in garden literature on ignorance of its possibilities—is based on fact.

When you receive your plants, put them in fairly good soil which is on the sandy side and fairly acid (there is not room to go into the arguments about the plant's liking acidity or alkalinity) in full sun and give them plenty of room to make maximum growth. The plants mentioned before were spaced four feet apart and have not been touched, either to be divided or fertilized, since. When I saw them recently, no ground was visible between the plants, and several had as many as seventy-five flower stems up to three feet in height. If they had been all of one shade they would have been the prize planting on the place.

#### Papaver Schinzianum.

The poppy bearing the name *Papaver schinzianum* has intrigued me all through the years since I obtained it from a Soviet botanical gar-

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3 to 6-in. seedlings . . .	\$ 3.50	\$ 27.50	\$ 23.50	\$22.00
6 to 9-in. seedlings . . .	5.00	42.50	40.00	37.50
9 to 12-in. seedlings . . .	8.75	80.00	75.00	....
9 to 12-in. transplants. .	13.50	115.00	100.00	....
12 to 15-in. transplants. .	20.00	175.00	150.00	....
15 to 18-in., 3-yr. trans..	25.00	225.00	200.00	....
18 to 24-in., 3-yr. trans..	32.50	300.00	270.00	....
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den long before the war. It intrigued me not only because of its beautiful silvered, pinnately divided leaves and lovely brick-red flowers, but also because of the mystery surrounding its origin. It would not be necessary to go into the latter were it not for the fact that confusion has been aroused by the publication in an amateur periodical some time ago that the plant is a form of *P. nudicaule*, which it patently is not, and the writer there makes the name *schinzianum*. Ordinarily, I do not bother my brain about matters of confused nomenclature, but there are enough cases of mixed identity of long standing without letting others creep into literature through loose thinking and even looser writing. Bailey gives the plant specific rank and further says that its habitat is unknown. The seed packet from which my original plants came carried the legend that it is from Asia Minor, which may or may not be the case. What is of more interest, no doubt, to the commercial grower is the fact that it is a worthy plant.

As it grows here, it reaches eighteen inches in height, with the lovely gray leaves mentioned before and masses of large brick-red flowers lasting from the middle of June into August. It makes a beautiful picture—a plant that could be made to serve many uses in the garden. The books and writers of garden stories call it a perennial. It may be, under their conditions. Basing the opinion on behavior here, I would call it either a biennial, if seeds are allowed to mature, or a short-lived perennial. In any case it selfsows freely, so one need never be without it.

#### Aster Subcoeruleus.

My own experience with *Aster subcoeruleus* and its named forms is so inconclusive, and reports on its behavior elsewhere so confusing, that I should like to take a poll of followers of this column. If you have grown any *subcoeruleus* forms and will drop me a card telling briefly of your experience, I shall be glad to pass the information on to others. There is splendid material here, beyond a doubt.

#### Carpets for Crocuses.

If you will recall your experiences of last spring, you will probably remember the need for a carpet in your crocus beds. You will be reminded, too, that your customers have the same need. If memory is short, next March will refresh it when you go out some blustery morning to find that the frail lilac bubbles of *Crocus imperati*, which were so lovely in yes-

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<i>Taxus Hatfieldi</i> , spd., 4 to 6 ins.....	16.00	135.00
<i>Taxus Hicksi</i> , 4 to 6 ins.....	16.00	135.00
<i>Taxus Intermedia</i> , 4 to 6 ins.....	17.50	150.00
This is nice stock, rooted last winter. Will be out of flats; ready now.		
<i>Berberis Thunbergi</i> , 6 to 9 ins., adlgs.....		\$25.00
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<i>Cornus Florida</i> , understock, adlgs.....		55.00
<i>Cornus Florida Rubra</i> , 1 yr. gfts.....	\$50.00	450.00
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(Welch is a variegated leaf, showiest of all the <i>Cornus</i> .)		
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Real red-leaved Maple.....		\$100.00
<i>Picea Kosteri</i> and <i>Moerhemi</i> , 1-yr. gft.....		100.00
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Seedlings, 3-yr., tr., 6 to 10 ins.....		35.00
<i>Viburnum Carlesii</i> , 1-yr. gfts., 6 to 10 ins.....		50.00
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terday's sunshine, are today bedraggled and splashed with mud from last night's storm. Much of this and misfortunes of a similar nature, to say nothing of summer-long beauty after the crocuses have gone to their annual sleep, may be taken care of by giving the intrepid adventurers an evergreen carpet.

The task of finding the best plant for that purpose is a fascinating one, on which many pleasant hours could be spent. Not all are ready to spend the time, though, and in that case the experiences of others come as light in darkness. There are numberless good mat-makers among the plants of the world, as every gardener knows; it is also known that not all mat-makers are adapted to the present purpose. What is needed is low growers, with not too dense foliage or too deep root systems, and lovers of sunshine. Experience shows that all these characteristics are to be found among the thymes, so we are not surprised to learn that knowing gardeners consider some of the varieties of *Thymus serpyllum* as the best of crocus carpeters.

Because white-flowered thyme, *T. serpyllum albus*, possesses all the traits named in the preceding paragraph and several other good ones not mentioned there, it is thought by many experienced gardeners to be about the best of the lot. It has the added recommendation of having pure white flowers, which may be especially needed when one is working for a color scheme where harsh shades cannot be introduced. The variety *Annie Hall* is not far behind, though, for its flesh-pink flowers may be safely used in most associations. For a bolder color and the same open growth, the crimson variety, *coccineus*, will answer the purpose.

The woolly thyme, which is variety *lanuginosus*, makes a beautiful woolly gray carpet, though it is a little too dense for all except the sturdier kinds of crocus, like the garden hybrids collectively known as Dutch crocuses. It would no doubt make a good associate for the autumn-flowering kinds and colchicums.

#### Coneflower.

If the coneflower, *Lepachys columnifera* (also known as *L. columnaris* and *Rudbeckia columnaris*), behaves in other sections as it does here, I am at a loss to understand why it is not more generally grown, for it possesses many of the characteristics which gardeners look for in their plants. These include a neat habit of growth to a height of two or three feet, the stems ending in showy coneflowers, pure yellow, yellow,

## WANT LIST

Please quote on any items you can furnish.

- 1000 **Bartlett Dwarf Pear**, 5/8-in. and up.
- 1000 **Duchesse d'Angouleme Dwarf Pear**, 5/8-in. and up.
- 5000 **Salix Purpurea Nana**, 15 to 18 ins.
- 300 **Cherry, Flowering Kwanzan**, 3 to 4 ft.
- 400 **Crab, Bechtel's Flowering**, 3 to 4 ft.
- 500 **Prunus Newport**, 4 to 5 ft.
- 500 **Cherry, Weeping Pink-flowering**, 5 to 6 ft., 1-yr. heads
- 1000 **Maple, Norway**, 8 to 10 ft.
- 1000 **Maple, Schwedleri**, 6 to 8 ft.
- 1000 **Maple, Schwedleri**, 8 to 10 ft.
- 1000 **Mountain Ash**, 5 to 6 ft.
- 4000 **Calycanthus**, 2 to 3 ft.
- 4000 **Cornus Elegans, Variegated**, 18 to 24 ins. or 2 to 3 ft.
- 1500 **Deutzia Gracilis Rosea**, 15 to 18 ins.
- 1000 **Elaeagnus Pungens**, 18 to 24 ins.
- 2500 **Lilac Paul Herriot**, 18 to 24 ins. or 2 to 3 ft.
- 500 **Clethra Alnifolia**, 2 to 3 ft.
- 5000 **Symphoricarpos Chenaulti**, 2 to 3 ft.
- 5000 **Spiraea Anthony Waterer**, 15 to 18 ins.
- 3000 **Spiraea Callosa Alba**, 12 to 15 ins. or 15 to 18 ins.
- 3000 **Philadelphus Aurea**, 15 to 18 ins.
- 1000 **Viburnum Carlesi**, 15 to 18 ins.
- 2000 **Weigela Vaniceki**, 2 to 3 ft.
- 4000 **Weigela Variegated**, 18 to 24 ins.
- 2000 **Euonymus Radicans Vegetus**, 12 to 15 ins.
- 2000 **Euonymus Radicans**, 2-yr., No. 1
- 500 **Yucca, Variegated**, No. 1
- 5000 **Chrysanthemum Pigmy Gold**
- 5000 **Floradora Rose**, No. 1
- 1000 **Hypericum Aureum**, 15 to 18 ins.
- 1000 **Hypericum Moserianum**, 15 to 18 ins.

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## JUNIPERUS VIRGINIANA

Transplanted understock.

\$100.00 per 1000.

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low and maroon or pure maroon, in its different forms. The first is the least desirable, in my estimation, being not unlike several other composites so far as garden uses are concerned. But the last, known as variety pulcherrima (Obeliscaria pulcherrima, according to some), is a striking plant.

They commence their performance here in early July and continue well into August, covering a period when a blooming perennial is at a premium. My favorite of the color forms that have grown here is the pure maroon, almost black, a shade that is rare in nature, though one which combines well with most colors of that season.

Here the plant acts as a perennial, though sometimes rather short-lived, belying the report from some quarters that it is an annual or perhaps biennial at best. That report probably originated in England where it is used as an annual. It is true that an early spring sowing of the seeds, the logical way to propagate the plant, will give one flowers the first year, thus fulfilling one of the roles of an annual. But if they are given good drainage and the seeds are from the northern half of its range (it grows naturally from Saskatchewan to Texas), there is no reason why the plants should not last for several years. If you have never made a serious effort with them, a group of the maroon form in your show garden should open the way to many sales.

#### SPIDER ON ARBORVITAE.

Good control of red spider on arborvitae is reported at the Waltham field station of Massachusetts State College by spraying with a power sprayer, using four pounds of wettable sulphur and four pounds of wettable derris or cube powder to 100 gallons of water.

#### FARM INCOME HIGH

Nurserymen serving the rural sections may look forward to excellent business with farmers, judging from the reports of their income for the present year.

Cash receipts of farmers for the first half of 1947 were about twenty-five per cent higher than during the corresponding period of 1946. Farmers received nearly \$12,000,000,000. Of that total, \$7,900,000,000 came from sale of livestock and its products. Crop receipts, at \$3,800,000,000, were twenty per cent above last year, with the heaviest gains in grains and tobacco. Figures for the second half will depend on general

## LINING-OUT STOCK

20,000 quality Evergreens including 5,000 Upright Yew from prewar Japanese seeds, all from field beds.

**Picea Pungens (Colorado Spruce)** Per 100  
6-year, XX, 6 to 8 ins. .... \$25.00  
6-year, XX, 8 to 10 ins. .... 33.00

**Taxus Cuspidata Capitata (Upright Yew)**  
6-year, XX, 8 to 10 ins., sheared ..... 50.00  
6-year, XX, 10 to 12 ins., sheared ..... 65.00  
6-year, XX, 12 to 15 ins., sheared ..... 85.00

**Tsuga Canadensis (Canada Hemlock)**  
6-year, XX, 9 to 12 ins., sheared ..... 40.00  
6-year, XX, 12 to 15 ins., sheared ..... 50.00  
5-year, X, 6 to 9 ins. .... 22.00

**Picea Excelsa (Norway Spruce)** Per 1000  
3-year, X, 3 to 6 ins. .... \$50.00

## 2 CHOICE PERENNIALS

20,000 plants reduced for Fall clearance.

**Hemerocallis Kwanse Floreplena** Per 100 Per 1000  
1-year, field plants ..... \$ 8.00 \$ 60.00  
2 and 3-year, heavy clumps. .... 12.00 100.00

**Iris Kaempferi**  
Field plants of choice varieties, mixed colors ..... 15.00 140.00

Beetle certificate furnished. Free packing.

Cash with order, please.

**BROOKFIELD GARDENS, Delaware, N. J.**

## SPECIMEN EVERGREENS

**Juniperus Chinensis Keteleeri** ..... 3 to 5 ft.  
**Juniperus Virginiana Canaerti** ..... 3 to 4 ft.  
**Juniperus Virginiana Glauca** ..... 3 to 4 ft.  
**Juniperus Virginiana Hilli** ..... 4 to 6 ft.  
**Taxus Cuspidata** ..... 15 to 30 ins.  
**Taxus Cuspidata Capitata** ..... 2 to 3 ft.

Also a good general assortment of Northern-grown Evergreens.

Write us for our carload prices.

Write for price lists which will be published about September 15.

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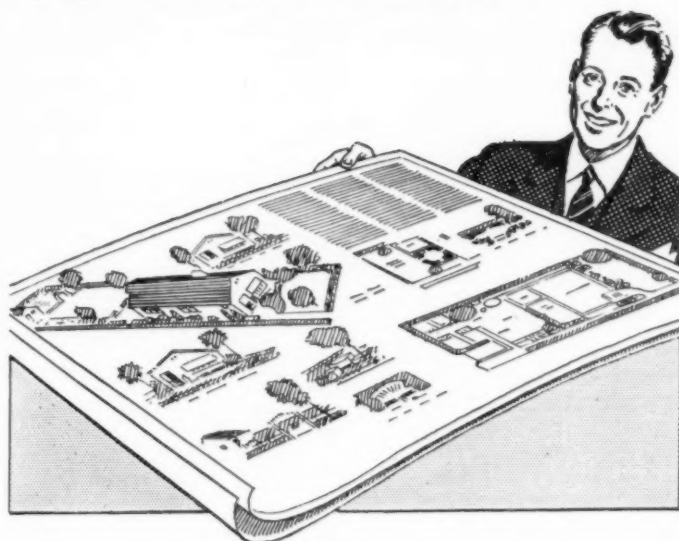
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These practical profit-producers stimulate enthusiasm for gardening because they give homeowners workable plans for beautifying their landscapes. You'll sell more nursery stock, more Vigoro with the Vigoro Beauty Plans. So get a good supply of Vigoro and request the Vigoro Beauty Plans now! No extra charge made for the plans

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economic conditions. At present, no appreciable drop in farm income is anticipated.

## **ILLINOIS NURSERIES DISTRIBUTE SEEDLINGS.**

An increasing demand for reforestation stock has been noted by the division of forestry nurseries of the Illinois department of conservation, which distributed 4,000,000 seedlings during the 1946 planting season. The supply of all available species was exhausted, and the number of seedlings distributed represented a substantial increase over that distributed the preceding year.

Seedlings for 8,000,000 seedlings at the state tree nurseries are now being made; however, about 2,250,000 of these will not be ready for distribution until 1950. Several species, such as ash, oak, tulip, poplar and cedar, were not seeded because seeds were not available, and, therefore, they were not included in the stock list for the 1947 planting season. Approximately 6,000,000 seedlings and transplants were made available for the 1947 season, including black locust, black walnut, red gum, Osage orange, cottonwood, soft maple, cypress and jack, red, white, pitch, Virginia, loblolly and short-leaved pines.

## **HEMLOCK** (*Tsuga Canadensis*)

	Per 100
6 to 8 ins., XX, heavy	\$ 22.00
10 to 14 ins., XX, heavy	38.00
12 to 18 ins., XXX, sheared, B&B	90.00
18 to 24 ins., XXX, sheared, B&B	150.00
2 to 2½ ft., XXX, sheared, B&B	250.00
2½ to 3 ft., XXX, sheared, B&B	300.00
3 to 3½ ft., XXX, sheared, B&B	400.00

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A very complete line of  
**ORNAMENTAL TREES, SHRUBS  
and EVERGREEN SHRUBS,**  
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# Quarantine Actions

## QUARANTINE AMENDMENT SIGNED BY PRESIDENT.

Having been passed by both houses of Congress, the amendment to the plant quarantine act of 1912 became public law 290, Eightieth Congress, when President Truman signed the bill July 31.

In its final form the bill did not include the reference to bulbs, proposed in committee hearing, nor did it include the limitation on importing stock "for propagation purposes" only.

The bill gives the Secretary of Agriculture authority to limit the entry of nursery stock from foreign countries, an authority that has previously been exercised by the Secretary of Agriculture, but without basis in law according to the opinion of the Solicitor General.

The current amendment had the support of the American Association of Nurserymen and other horticultural bodies.

Neither the plant quarantine act nor the amendment of itself limits the entry of nursery stock, nor is there any obligation on the Secretary of Agriculture to restrict the entry of such stock.

The purpose, as stated by the amending bill, is "to protect American agriculture, horticulture and forestry from injurious insect pests and plant diseases new to or not widely prevalent or distributed within and throughout the United States," and for such purpose the Secretary of Agriculture is given the authority "to limit entry of nursery stock from foreign countries, under such rules and regulations as he may deem necessary, including the requirement, if necessary, that such nursery stock be grown under postentry quarantine by or under the supervision of the United States Department of Agriculture for the purpose of determining whether imported nursery stock may be infested or infected with plant pests not discernible by port-of-entry inspection and provided that if imported nursery stock is found to be infested or infected with such plant pests, he is authorized to prescribe remedial measures as he may deem necessary to prevent the spread thereof."

In summary, the new bill restores the prewar situation, under which nursery stock was allowed entry subject to regulations imposed by the Secretary of Agriculture, before the bars were let down by evasive meas-

ures by permittees or by relaxation of restrictions by the department.

## CUT FLOWER QUARANTINES.

The bureau of entomology and plant quarantine, at Washington, D. C., has issued further quarantine instructions regarding the importation of cut flowers into this country in addition to the instructions reported in the preceding issue.

The importation of the following cut flowers has been determined to involve special risk of introduction of new and potentially injurious insects or plant diseases when the flowers are imported into the continental United States, Hawaii and Puerto Rico from the foreign countries designated in an earlier decree and are affected by the new order: Camellias, gardenias, cape jasmine, rhododen-

drons (including azaleas), roses and lilacs. These may be imported only under permits issued in accordance with instructions previously released. The provisions became effective August 1.

## NEW PLANT QUARANTINE STATION AT MIAMI.

A new plant quarantine inspection station, where plant material may clear quarantine before proceeding to destination, was opened July 18 at Miami, Fla., the United States Department of Agriculture has announced. This station is located at the Miami airport.

The department's nursery stock, plant, and seed quarantine No. 37 requires that certain kinds of nursery stock, other plants and parts of plants, including seeds, subject to entry into the United States only under permit, must clear through an authorized plant quarantine inspection station.

Facilities have now been provided

## LINING-OUT EVERGREENS

	Per 100	Per 1000
<i>Juniperus horizontalis plumosa</i> (Andorra Juniper)		
2-yr., from 2½-in. rose pots.....	\$ 22.50	\$ 200.00
<i>Picea pungens glauca</i> (Colorado Blue Spruce)		
6 to 8 ins., xx.....	22.50	200.00
9 to 12 ins., xx.....	27.50	250.00
12 to 15 ins., xx.....	32.50	.....
<i>Picea glauca densata</i> (Black Hills Spruce)		
6 to 8 ins., xx.....	22.50	200.00
9 to 12 ins., xx.....	27.50	250.00
12 to 15 ins., xx.....	32.50	.....
<i>Taxus cuspidata capitata</i> (Upright Yew)		
4 yrs., xxx, open beds.....	175.00	1500.00
<i>Taxus cuspidata</i> (Spreading Yew)		
1-yr., from 2½-in. rose pots.....	22.50	200.00
2-yr., from 2½-in. rose pots.....	30.00	275.00
<i>Taxus cuspidata intermedia</i> (Intermedia Yew)		
1-yr., from 2½-in. rose pots.....	22.50	200.00
2-yr., from 2½-in. rose pots.....	30.00	275.00
<i>Taxus media andersoni</i> (Anderson Yew)		
1-yr., from 2½-in. rose pots.....	22.50	200.00
2-yr., from 2½-in. rose pots.....	30.00	275.00
<i>Taxus media browni</i> (Brown's Yew)		
1-yr., from 2½-in. rose pots.....	22.50	200.00
2-yr., from 2½-in. rose pots.....	30.00	275.00
<i>Taxus media hicksi</i> (Hicks Yew)		
1-yr., from 2½-in. rose pots.....	22.50	200.00
2-yr., from 2½-in. rose pots.....	30.00	275.00
<i>Taxus media</i> (Anglojap Yew)		
1-yr., from 2½-in. rose pots.....	22.50	200.00
2-yr., from 2½-in. rose pots.....	30.00	275.00

50 at 100 rate.

All prices F.O.B. Milwaukee.

500 at 1000 rate.

Packing at cost.

Write for price lists which will be out about September 15.

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at the port of Miami which have been approved as constituting an authorized inspection station for clearing such propagating material, as well as cotton samples, through quarantine. Permittees who import or expect to import plant propagating material or cotton samples through the port of Miami, Fla., should apply to the import and permit section, bureau of entomology and plant quarantine at Hoboken, N. J., to have their permits amended to authorize importations through Miami. They should also remember that in case of express, air express, freight and cargo shipment it is necessary to employ a customs broker to take care of customs and other formalities and, in the case of large shipments, to supply labor if called upon by the plant quarantine inspector to do so.

If mail shipments through Miami are contemplated, the permittee should apply for Miami mail tags, one for each parcel which he expects to receive at Miami. Permittees should not confuse air shipments (practically all of which come by air express, not air mail) with mail shipments.

Request for permits or amendments to permits to authorize plant quarantine clearance of plant propagating material through Miami should be addressed to the Bureau of Entomology and Plant Quarantine, Import and Permit Section, 209 River street, Hoboken, N. J.

#### CONNECTICUT EXHIBIT.

The principal exhibit in the Connecticut State building for the Eastern State Exposition, to be held September 14 to 20, at West Springfield, Mass., has been assigned to the Connecticut Nurserymen's Association.

With the cooperation of the Connecticut Florists' Association, the Connecticut nurserymen will stage a 70x20-foot formal garden of Connecticut-grown nursery stock and flowers.

President Arthur Webster has appointed the following committee to handle the exhibit: Arthur Bird, chairman, Peter Cascio, Edgar Brown, William Scott and Ludwig Hoffman.

W. J. SPAARGAREN, Boskoop, Holland, flew to the United States last month on a month-long business trip.

S. O. ALGER has sold his business at Fairport, N. Y. and has bought a lot near Pittsford, N. Y. where he has begun a nursery and has built a house, shed and storage building.

## TAXUS

### 2000 BREVIFOLIA NANA

Per 100

18 to 24 ins. . . . . \$350.00

### 4000 PYRAMID ARBORVITAE

Per 100

36 to 42 ins. . . . . \$250.00

Also Mugho Pine, Pfitzer Juniper, Andorra Juniper, Stricta Juniper, Euonymus Vegetus, Globe Arborvitae, Azalea Mollis, Azalea Hinodegiri (Othello), Daphne Cneorum, etc. Also Philadelphus Virginalis. And the following PERENNIALS: Phlox Subulata (3 colors), Peony Karl Rosenfeld (R), Mt. Shasta Daisy, Dbl. Painted Daisy, Funkia Variagata, Dicentra Spectabilis, Gypsophila Bristol Fairy, No. 1, extra lg., \$300.00 per 1000.

## JOSEPH P. YODATH NURSERIES

On route 20, 3 miles west of  
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## EVERGREENS IN CLOVERSET POTS

Douglas Fir, 12 to 18 ins., xx.	\$1.00
Norway Spruce, 12 to 18 ins., xx.	1.00
White Spruce, 12 to 18 ins., xx.	1.00
Dwarf Alberta Spruce, 12 to 18 ins., xxx.	2.50
Colorado Spruce, 12 to 18 ins., xxx.	1.50
Pyr. Arborvitae, 12 to 18 ins., xx.	1.00
American Arborvitae, 12 to 18 ins., xx.	1.00
Concolor Fir, 12 to 18 ins., xx.	1.00
Canada Hemlock, 12 to 18 ins., xxx.	1.50
Taxus Capitata, 12 to 18 ins., xxx.	2.50
Taxus Hicksi, 12 to 18 ins., xxx.	2.50
Taxus Hatfieldi, 12 to 18 ins., xxx.	2.50
Hardy Box, 6 to 8 ins., xx.	.60

These are beautiful trees, call and see them.

F.O.B. nursery, no shipping, or we can deliver truckloads at reasonable rate.

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## DICENTRA SPECTABILIS

Now booking orders for shipment as soon as dug this fall.

Nice Whole-root Clumps

Large forcing size, 5 to 8 eyes and up, 32c. Regular size, 3 to 5 eyes, 25c.

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CENTRAL BRIDGE, N. Y.



## Central Plant Board Meets

The Central Plant Board held its summer meeting in conjunction with the eighth annual meeting of the North Central Association of Commissioners, Directors and Secretaries of Agriculture, at Shenandoah, Ia., July 10 to 12. It was the first time the plant regulatory officials had met with this group of agricultural leaders, and it is felt that the success of the meeting has paved the way for future meetings of this nature. The problems considered on the joint program were of common interest to the groups represented.

Special consideration was given to soil conservation practices, both in the general program and in the field trips to the large nurseries and experimental farms in the Shenandoah area. The latest developments and most approved procedures in soil conservation were demonstrated on the tours arranged. Nurseries visited were those of the Mount Arbor Nurseries, Lake's Shenandoah Nurseries, J. C. Welch Nursery, Henry Field Seed & Nursery Co. and Earl E. May Seed & Nursery Co. These represented more than 4,000 acres. The well managed nurseries are outstanding examples of the benefits to be obtained from terracing, contour planting and the adoption of other recommended procedures in soil management.

Recent floods of the Missouri and Mississippi rivers and their tributaries have emphasized the importance of soil conservation practices as developed by state and federal research agencies. Seeing the application of these practices and their benefits in soil conservation was timely and interesting to the group. The general feeling expressed was that soil conservation is the number one problem in agriculture.

The invitation to the Central Plant Board to meet at Shenandoah had been issued by Harry D. Linn, Des Moines, Ia., secretary of the North Central Association of Commissioners, Directors and Secretaries of Agriculture. Nine of the thirteen Central Plant Board states were represented by their plant regulatory officials.

The delegates to the meeting were guests the evening of July 11 at a dinner given at the country club by the Shenandoah nurserymen. Dr. R. P. White, executive secretary of the American Association of Nurserymen, Washington, D. C., addressed the group on the nursery industry, its development and present status.

He expressed special interest in the soil conservation practices put into effect in the Shenandoah nurseries and complimented the groups represented on their frank and progressive discussions of topics of importance to agriculture and the nursery business. An excellent color movie, dealing with nursery practice and management in the Shenandoah vicinity, was shown through the courtesy of Mount Arbor Nurseries.

The Central Plant Board group met jointly with the North Central Association of Commissioners, Directors and Secretaries of Agriculture except for a special business session on the afternoon of the first day. L. M. Gates, state entomologist, Lincoln, Neb., presided. He outlined to the commissioners, directors and secretaries of agriculture the activities of the Central Plant Board in bringing about greater uniformity in the inspection and regulation of nursery stock. He said that the constant aim was to evaluate plant quarantines on the biological bases. A brief resumé of the annual winter meeting of the Central Plant Board, held at Des Moines, Ia., March 24 and 25 was also given.

C. A. Boyer, secretary-treasurer of the National Plant Board, discussed the importance of the United States maintaining and strengthening its regulations against nursery stock imported from foreign lands, because of the pest risks involved. He pointed out that while many foreign plant pests have already become established here, the many more which have not gained entrance must be kept out by every means possible.

Math Dahl, president of the North Central Association, welcomed the members of the Central Plant Board and expressed the hope that they might again meet with the commissioners, secretaries, and directors of agriculture. J. A. Munro, Sec'y.

### NEW MINNESOTA FRUITS.

Three new varieties of fruit, Red-well apple, Chestnut crab apple and Arrowhead strawberry, have been named and introduced by the University of Minnesota fruit breeding farm, Excelsior. Various nurseries in Minnesota will have a limited supply of all three varieties, which are suitable for the Minnesota region, to offer for spring planting.

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BOX 3

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Shade and Ornamental Trees

Flowering Shrubs

Evergreens

Hedge Plants

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Cannas

Strawberries and other small fruits

Peach, Apple and other fruit trees

Asparagus and Rhubarb Roots

Horse-radish

Over 1,400 acres under cultivation. A complete line of general nursery stock. Visit us sometime this summer, or write for information.

### EVERGREENS

Lining-out stock.

Write for list.

SUNCREST EVERGREEN NURSERIES  
Johnstown, Pa.

### Look to LEGHORN'S for your LINERS.

Quality Yew, Arborvitae and Juniper  
Liners, as well as Specimen Trees.

LEGHORN'S EVERGREEN NURSERIES

Leer Street

Cromwell, Conn.

Redwell apple, Minnesota 638, has the following important attributes for commercial production: Attractive color; regular annual production; fruits well distributed, with absence of clustering, and a strong stem attachment to resist high winds at harvest times. The mother parent of Redwell was Scott's Winter, open pollinated. The fruit is ready to use soon after picking in mid-October and will keep until about January 1.

Chestnut crab apple, Minnesota 240, is a hybrid form of excellent dessert quality, with the strong acid flavor of the crab entirely lacking. Its season of use extends from about September 1 to November 15.

The Arrowhead strawberry, Minnesota 1118, is being introduced as a new variety because of its plant characteristics of hardiness, vigor and runner-setting ability and its fruit qualities of attractiveness, large size and desirability for market, freezing and jam making. It is a June-bearing variety, medium productive of fruit, whose time of harvest is midseason to medium late.

#### CONNECTICUT NURSERIES.

A total of 302 nurseries were registered and inspected during the summer of 1945, according to the annual report of the Connecticut agricultural experiment station for that year, just issued. This total is five more than were registered in 1944. However, not all of the nurseries were granted certificates of inspection, as they had not completed the required pest clean-up.

Land devoted to the growing of stock totaled 4,258 acres, about the same amount as in 1944. Seven nurseries had 100 acres or more; seven, from fifty to ninety-nine; thirty-nine, from ten to forty-nine, and twenty-eight, from five to nine. One acre or less of land is under cultivation at 144 nurseries, and seventy-seven had from two to four acres.

Wood borers were thought to be the most serious insect pests found, and of the scale insects, oystershell scale was the most abundant.

FIRE destroyed the office and warehouse and caused severe damage to near-by lathhouses and plantings July 17 at the Otto M. Locke Nursery, New Braunfels, Tex. Total loss was over \$30,000.

AL DUTTON, general manager of the Germain Seed & Plant Co., Los Angeles, Cal., is head of the committee setting up the premium list for floriculture classes at the county fair, September 15 to 21, at San Jose, Cal.

## PRICES REDUCED on SPECIMEN EVERGREENS

We must clear ten acres this fall for new plantings. All stock closely sheared for early digging.

Am. Arborvitae, 4 to 5 ft.	\$3.00
J. Burki, 4 to 5 ft.	4.00
J. Columnaris Glauca, 4 to 5 ft.	4.00
Hemlock, 3 to 4 ft.	3.50
J. Hilli, 3 to 4 ft.	2.50
J. Hilli, 4 to 5 ft.	3.75
J. Irish, 4 to 5 ft.	2.50
J. Meyer, 18 to 24 ins.	2.25
Mugho Pines, 18 to 24 ins., well sheared	2.00
Mugho Pines, 24 to 30 ins.	2.25
J. Pfitzer, 2 to 3 ft.	2.50
J. Pfitzer, 3 to 4 ft.	2.95
J. Pyramidalis, 3 to 4 ft.	3.00
Scotch Pine 4 to 5 ft.	1.50
Taxus Hicksi, 18 to 24 ins.	2.00

All stock well sheared and in excellent condition.

Other varieties and sizes available.

Prices are cash and for stock in the field, digging approximately 15 per cent additional.

## ZEPHYR HILL NURSERIES

SPRINGFIELD, OHIO

Two miles south of city on State Route No. 68

Richard B. Schmidt

Phone 3-8889

### ACER PLATANOIDES — NORWAY MAPLES

Look!	Look!
	Per 100
3 to 4 ft., trans.	\$13.50
4 to 5 ft., trans.	15.00
5 to 6 ft., trans.	20.00
6 to 8 ft., trans.	30.00
6 to 8 ft., ¾ to 1-in. cal.	60.00
10 to 12 ft., 1 to 1½-in. cal.	75.00
12 to 14 ft., 1½ to 1¾-in. cal., well branched	150.00
14 to 16 ft., 1¾ to 1¾-in. cal., well branched	200.00
16 to 18 ft., 1¾ to 2-in. cal., well branched	225.00
2 to 2½-in. cal.	\$3.00 each.

Additional charge of 10% will be added for balling and shipping. No charge will be made for loading bulk trucks.

STATE ROAD NURSERY

State and Sprout Rds.

Route 1, Media, Pa.

### We Offer—

EVERGREENS — In a large assortment of PYRAMIDAL and GLOBE ARBORVITAE, PFITZER JUNIPER and YEWs in grades at attractive prices. SOME LARGE SPECIMEN EVERGREENS, SHRUBBERY and SHADE TREES.

Mail want list for prices.

THE WESTMINSTER NURSERIES

Westminster, Md.

### EVERGREEN LINERS

Taxus, many varieties.  
Potted liners.

Ask for our latest price list.

HEASLEY'S NURSERIES  
Freeport Road, Butler, Pa.

The lovely

Yellow

Rose



V for Victory

and other

SUB-ZERO HYBRID TEAS

Large and beautiful as any.  
Easy to grow and long to live.  
Save replacement expense.  
Also Yellow and Orange Climbers.

Write for trade prices to

BROWNELL ROSES  
LITTLE COMPTON, R. I.

## KOSTER NURSERY

Division of Seabrook Farms

Wholesale Nurserymen

BRIDGETON, N. J.

\*\*\*\*\*

Write for wholesale price list of lining-out and specimen stock in better evergreens and shrubs.

## New Products

### SLIP-TITE HOSE COUPLING.

The chore of the gardener in changing the hose from one faucet to another is being alleviated by more than one device. The Bana Slip-Tite hose coupling performs the function by providing an adapter on each faucet and its mate on one end of each hose. Then the hose and faucet adapters are slipped together for a leakproof union. Manufactured by the Bana Co., San Francisco, Cal., the couplings are finished castings of a rustproof alloy. Units are supplied in display cartons to retail for 69 cents a unit to the public.

### GARDEN HOSE COUPLING.

Slide-lock is the trade name of a garden hose coupling which will be marketed soon by the Cleveland Supply Co., Hollywood, Cal.

This new coupling features the ball-and-groove design. The hose (male) end is flanged to slide into the grooved faucet (female) end and is locked in place by a spring-tensioned ball. This locking action provides full-swivel rotation, thus preventing kinks in the hose. A special, contoured gasket in the female end automatically seats itself under pressure, making an absolutely watertight connection.

Slide-lock is manufactured with specially designed tools to insure uniformity of units and is made of noncorrosive virgin metals. The stainless steel ball is actuated by a cadmium-plated steel spring assembled to provide for longer wear.

The hose connection is standard and will fit all standard hose, faucet and sprinkler connections. Replacements for the black, self-seating gasket and the standard red gasket are available.

### LIGHT LOW-COST TILLER.

The Mulsifier soil tiller, a low-cost rotary farming tool, conditions the soil, prepares a deep seedbed for planting, fertilizes and cultivates between crop rows eighteen inches or more apart.

Spring-steel tines grind all surface organic material into a fine mulch. Designed by automotive engineers, this implement shows the results of three years of experimentation and field testing. An economical 4-cycle, 4-horsepower air-cooled gasoline motor transmits through reduction gearing, it is asserted, applied horse-

## ROSES

2-year Field-Grown-Budded on *Japanica Multiflora*. Our roses are exceptionally fine this year—And GOOD ROSES are none too plentiful, so place your order NOW.

SHIPMENTS START AFTER DECEMBER 15 and continue through the Winter.

Under 100 Lots, No. 1, 55c; No. 1½, 45c; No. 2, 35c.  
100 Lots and over, No. 1, 50c; No. 1½, 40c; No. 2, 30c.

Write for prices on lots of 500 and over.

TERMS: CASH WITH ORDER; or 50 per cent cash with order, balance C.O.D. PLUS PACKING CHARGES—No packing charge when cash in full is sent with order.

Ami Quinard  
Betty Uprichard  
Briarellif  
Columbia  
Caledonia  
Condesa de Sastago  
Edith Nellie Perkins  
Etoile de Hollande

Editor McFarland  
E. G. Hill  
Gross an Tepitz  
Golden Dawn  
K. A. Viktoria  
Luxembourg  
Mrs. P. S. DuPont  
Pres. Hoover

Pink Radiance  
Roslyn, Yellow  
Red Radiance  
Sunburst  
Tallman  
Tallman, Yellow  
Golden Salmon, (Pol.)  
Ideal, (Pol.)

### CLIMBERS

Climbing Caledonia  
Climbing Columbia  
Climbing Etoile de Hollande  
Climbing Red Tallman

Climbing Tallman  
Climbing Red Radiance  
Paul's Scarlet Climber

Our roses are liberally graded and up to standard pack, and shipped so you will receive the plants in good condition—SUGGEST YOU PLACE YOUR ORDER NOW.

## BRYON FLORAL GARDENS

Reference: Union National Bank.

Nursery Department, M. Semple, Mgr.

SPRINGFIELD, MO.

## MUGHO PINE SEEDLINGS

For several years no seeds were available, but two years ago we were fortunate in getting a limited amount of imported seeds.

Now, we offer 2-year-old seedlings, beautiful stock, fall or spring delivery.

Per 1000  
2 to 4 inches.....\$40.00  
4 to 6 inches.....\$50.00

SHERMAN NURSERY COMPANY  
Charles City, Iowa

## VIBURNUM BURKWOODI

New—Fragrant—Hardy  
Pinkish-white flowers in May

Heavy pot-grown stock for lining out. Spring 1948 delivery.

Per 100 Per 1000  
2½-in. pots .....\$35.00 \$300.00  
F.O.B. Dayton, Ohio

No charge for packing if check accompanies order.

THE SIEBENTHALER COMPANY  
Dayton 5, Ohio

The CHRYSANTHEMUM  
CATALOG you cannot afford  
to be without.

WONDERLAND NURSERIES  
Ellersong, Va.

## PRIVET and BERBERIS

Splendid Stock

Write for Special Quotations

LESTER C. LOVETT

MILFORD

DELAWARE

## GRAPEVINES, CURRANTS, GOOSEBERRIES and BERRY PLANTS

Can also supply Currant  
lineouts and cuttings.

Known to the Wholesale Trade  
for Small Fruit Plants of Superior  
Quality Since 1890.

F. E. SCHIFFERLI & SON NURSERIES  
Fredonia, N. Y.

## ROOTING EVERGREEN CUTTINGS

New, simplified way shows how  
to grow them easier, quicker and  
cheaper. No red tape. Order from  
this ad. \$1.50 per copy; 5 copies for  
\$5.00, postpaid.

## WHERRY NURSERIES

St. Marys, W. Va.

## Old English BOXWOOD

(Wholesale Only)

All slow-grown dense specimens. Red clay soil.  
Priced by height and spread. 18x12 ins. to 24x22  
ins. in unlimited quantities. Also large specimens  
up to 5 ft. Write for price list.

## BOXWOOD GARDENS

Mrs. R. P. Royer

High Point, N. C.

Hemlock, Juniper and Taxus in landscape sizes.

Write or visit us.

NORTH RIDGE NURSERY  
Elyria, Ohio



## C. M. Hobbs & Sons, Inc.

BRIDGEPORT INDIANA

Established 1875

AMERICAN and  
MOLINE ELM,  
up to 2-inch caliper.

SOFT MAPLE,  
up to 2-inch caliper.

PEACH and APPLE,  
in carlots.

General line of  
Shade Trees, Shrubs, Evergreens  
and Fruit Trees.

## Northern-grown Stock

Send  
for  
Price  
List.

J. V. BAILEY NURSERIES  
St. Paul 6, Minn.

## LAKE'S SHENANDOAH NURSERIES

Shenandoah, Iowa.

Wholesale growers of  
a fine assortment of

## GENERAL NURSERY STOCK

Your inquiries will be appreciated.

## New Crop, 2-Year, Field-Grown

## BUDDED ROSES

Our specialty

A good assortment of Hybrid Teas  
and Climbers.

Write for list. Liberal discounts on  
early bookings. Our prices will be in  
line with other reputable growers.

R. C. Wilson, Owner

ROSE LAWN NURSERIES  
Box 295 Winnsboro, Texas

**BURTON'S**  
HEADQUARTERS FOR  
EVERGREEN GRAFTS, TRANSPLANTED  
EVERGREENS, SHRUB LINERS.  
RARE ITEMS YOU DO NOT  
FIND IN MOST LISTS! *Write!*  
**HILLTOP NURSERIES**  
CASSIDOWN, OHIO

power equal to that of the largest tractor rigs.

The Mulsifier soil tiller, made by the Mulsifier Corp., Detroit, Mich., is equipped with a fertilizer attachment which may be filled with 200 pounds of ballast, making a heavy-weight implement when one is needed. When the attachment is used, a power take-off arrangement feeds the chemical from the hopper in front of the tines, and the blades distribute it throughout the seedbed or between the rows.

The Mulsifier soil tiller, which can be carried in the trunk of a car, will appeal tremendously to the growing army of "5:15 farmers," it is asserted.

## FIR BARK AS MULCH.

Successful processing of bark commercially in northwest forestry represents another milestone on the road to complete utilization of the region's vast timber resources.

Since uses have been established for all five components separated, it now becomes possible to get twelve per cent more usefulness from each saw log—the estimated amount of bark each log contains.

The development department of the Weyerhaeuser Timber Co., set up at Longview, Wash., in 1942, under management of R. D. Pauley, set out originally on its bark project to produce a cork material suitable to augment the decreasing supply of cork from the Mediterranean.

Bark differs radically from wood in its physical make-up and property values. The three main components of bark—cork, fibers and friable tissues—are arranged during growth in a specific pattern, cemented together as a water-resistant, tough envelope protecting the cambium.

In experimentations looking toward separation of the cork particles, it was discovered that the other bark constituents offered even greater promise as new industrial raw materials.

Most of the Silvacon will be sold as raw products to manufacturers and distributors, but certain consumer items will be packaged, such as the cork-flake soil conditioner and mulch, which has been given the name Topper.

Only the thick bark of the Douglas fir, predominant species in the company's timberlands, is used in the new plant. Barks of all northwest conifers are usable, but differ enough chemically and physically to necessitate separate processing.



Growers of a complete  
line of deciduous and  
coniferous species.

## JEWELL NURSERIES, INC.

Lake City, Minn.

## ORNAMENTALS TREES SHRUBS EVERGREENS

Wholesale growers of a  
general assortment for  
the best landscape plantings.

BRYANT'S NURSERIES  
Princeton, Illinois

**Boyd**  
NURSERY COMPANY

McMinnville, Tenn.

ORNAMENTAL SHRUBS  
SHADE TREES, VINES  
FOREST TREE SEEDLINGS  
LINING-OUT STOCKS

## EVERGREENS FOR FALL

*Biota aurea nana*, 15 to 18 ins., 18 to 24 ins.  
*Biota compacta*, 18 to 24 ins., 24 to 30 ins.  
*Biota Bakeri*, 2 to 3 ft.  
*Juniperus communis hibernica*, 2½ to 3 ft., 3 to 4 ft., 4 to 5 ft., 5 to 6 ft., 6 to 7 ft.  
*Juniperus hibernica fastigiata*, 2½ to 3 ft., 3 to 4 ft., 4 to 5 ft.  
*Juniperus excelsa stricta*, 15 to 18 ins., 18 to 24 ins., 24 to 30 ins.  
Truck or carloads.

FIKE NURSERIES  
Hopkinsville, Ky.

## NORTHERN-GROWN STOCK

### For Fall Planting.

	Per 100	Per 1000
American Larch.		
2 to 3 ft.	\$15.00	
3 to 4 ins.	12.00	
Black Hills Spruce.	10.00	
Platte River Red Cedar.		
3 to 6 ins.	7.50	\$ 60.00
American Arborvitae.		
8 to 10 ins.	8.00	
3 to 4 ins. now, 8 weeks to grow	6.00	50.00
Balsam Fir.		
8 to 12 ins.	20.00	150.00
6 to 8 ins.	15.00	100.00

	Per 100	Per 1000
2-yr. Seedlings.		
American Arborvitae	\$3.00	\$25.00
Scotch Pine	2.50	20.00
Mugho Pine	3.00	25.00
Norway Spruce	3.00	25.00
Colorado Blue Spruce	3.00	25.00
Black Hills Spruce, 3-yr.	4.50	40.00
Black Hills Spruce, 2-yr.	2.50	20.00
Douglas Fir	3.50	30.00
Black Spruce	3.00	25.00
European Larch	3.50	
Juniperus Scopulorum, 1-yr.	3.00	25.00
Platte River Red Cedar.		
6 to 8 ins.	4.00	35.00
4 to 6 ins.	3.00	25.00
2 to 4 ins.	2.50	20.00

Cedar and Juniper, 100 per cent Blight-free.  
Pink Tat. Honeysuckle (cuttings), 6 to 15 ins., \$8.00 per 100. 2000 Jap. Barberry, trans., 6 to 9 ins., better br., \$50.00 per 1000. 8,000 to 10,000 Green Ash Seedlings, \$12.00 per 1000; \$10.00 per 1000 for the lot.

Above is the best of stock. Shipment from September 1 on. Write for prices on 10,000 or more.

**J. R. PALMER & SON**  
BLACKDUCK, MINN.

## WHOLESALE ROSE GROWERS for over 30 years.

Write for list of varieties and prices.

**L. C. HOUSE & SONS**  
Route 5 Tyler, Texas

We are wholesale growers of Shade Trees and Ornamental Shrubs.

Also collectors of Mountain Shrubs and Evergreens.

Catalog on request.

## HIGHWAY GARDENS

R. F. D. No. 3 McMinnville, Tenn.



## EVERGREENS

Growers of Quality Evergreens Lining-out Stock a Specialty  
Write for Trade List

**EVERGREEN NURSERY CO.**  
Established 1884 : STURGEON BAY, WIS.

## STATE SALES TAXES.

Nurserymen may sometimes be in doubt as to when and for what articles a state sales tax is to be collected or paid. The following notes on the sales tax are specifically applicable under the Connecticut sales and use tax act, but also may be found useful by nurserymen in other states. They are summarized from two mimeographed pages of questions and answers in a recent bulletin of the Connecticut Nurserymen's Association.

No matter in what state a nurseryman is engaged in business, he should keep his books in good order, for his business records may be examined at any time by the state tax department. Wholesale and retail sales should be recorded separately; mixing the two can cost money.

In the state of Connecticut the law requires that all persons, firms or corporations engaged in selling any taxable article at wholesale or retail within the state must obtain a permit from the tax commissioner, even if they do no retail business.

The sales tax does not apply to stock sold at wholesale for resale. When stock is sold at wholesale, the wholesaler should obtain from his purchaser a resale certificate, which he should retain in his files, proving that the stock was sold for resale (not to a retail customer) and therefore no tax was collected on the sale. While a resale certificate is not necessary for every wholesale transaction, some proof must be maintained to show to the tax department; so it is possible to obtain a blanket resale certificate from each retailer to whom the wholesale nurseryman sells regularly which will cover all sales made to each retailer.

Articles delivered across the state line are tax-exempt. But when a Connecticut nurseryman purchases stock or equipment from an out-of-state concern that is not authorized by the tax commissioner to collect the tax, the purchaser is liable for a use tax payable to the tax commissioner at the time the property so transferred is used.

On sales made on charge accounts, the sales tax must be recorded on the tax return for the quarter in which the sales were made, regardless of when the bill for the merchandise and the sales tax is collected from the customer. Even if the customer should not pay for the merchandise charged to his account and for the tax thereon, the sales tax must be paid to the state by the seller, for the sales tax applies to uncollected as well as to collected bills.

Where labor charges make up part

## SCARCE ITEMS

Privet, Amur River North. 2-yr., 2 to 3 ft., 3 to 4 ft.

Privet, Ibolium. 2-yr., 18 to 24 ins., 2 to 3 ft.

Spiraea Vanhouttei, 18 to 24 ins., 2 to 3 ft., 3 to 4 ft.

Juniper, Upright, drafted varieties, 3 to 4 ft., 4 to 5 ft., 5 to 6 ft.

Taxus Cuspidata, 15 to 18 ins., 18 to 24 ins., 24 to 30 ins.

In carload lots.

Thousands of other varieties and grades. Send us your list for Fall 1947 and Spring 1948 requirements.

Visitors Welcome.

**ONARGA NURSERY CO., INC.**  
Onarga, Ill.

## ABOUT ROSES

We feel it a good policy to spend more for producing quality stock and less on actual advertising. Quality speaks for itself.

Ask us about Roses for this Fall and Spring.

**VERHALEN NURSERY COMPANY**  
Scottsville, Texas

## ATTENTION MR. RETAIL NURSERYMAN

Do you believe there is only one nursery that can furnish you with the high-grade stock which you demand for your customers? If you do, stop here. If not, write

**MOUNTAINBURG NURSERY**  
Box 31, Mountainburg, Ark.

for the best prices on the best stock you ever bought.

75,000 to 100,000 Transplanted Hall's Japanese Honeysuckle and Lining-Out Tree and Shrub Seeds for fall delivery 1947. Write for wholesale prices—Azaleas, clumps; Red Flame Native Honeysuckle.

## TARLTON NURSERIES

Route 7, McMinnville, Tenn.  
E. J. Morton, Proprietor

## SNEED NURSERY COMPANY

P. O. Box 798  
Oklahoma City, Okla.

of an invoice, such as on landscape jobs, the bill should be itemized both for labor and for material costs, since labor costs are tax-exempt, and the sales tax applies only on the materials sold. However, since planting jobs involve real property, this sort of tax becomes more complicated.

If a nurseryman buys seeds for planting in his own greenhouse or field, he does not pay sales tax on them. A resale certificate may be given the purchaser both when the seeds are for resale as seeds or when they are to be used for growing plants which are in turn to be resold.

All sales of fertilizer in Connecticut are exempt from sales tax regardless of the purpose for which the fertilizer is to be used. Insecticides, however, are subject to the sales tax, both when the insecticides are to be used by the nurseryman and when they are to be sold by him.

It has been ruled that the sales tax must be paid on coal and oil used for heating purposes other than domestic heating. Should the same furnace be used to heat a nurseryman's home and his greenhouse, it is possible that he may adjust the tax on a fair percentage basis.

#### APPLES IN PENNSYLVANIA.

According to reports from the Pennsylvania department of agriculture, nearly thirty-five per cent of all Stayman apples produced commercially in the United States in 1946 were grown in the orchards of the Keystone state. Furthermore, Stayman stood first in state production, showing a crop of 2,620,000 bushels out of the total 1946 Pennsylvania apple crop of 9,360,000 bushels. Rome Beauty ranked second, York Imperial third, with Jonathan and Red Delicious tied for fourth place with 750,000 bushels each.

The national crop of Red Delicious exceeded 24,000,000 bushels, of which Pennsylvania production was a fraction over three per cent, and eight per cent of the total Pennsylvania production of other varieties. Apples that stand high in Pennsylvania production are Stayman, twenty-five per cent; Rome Beauty, thirteen per cent; York Imperial, twelve per cent, and Jonathan, eight per cent.  
E. F. R.

WILLIAM WESCHE is starting a nursery on three and one-half acres of land at Feasterville, Pa.

JUEL CHRISTENSEN, of the Christensen Nurseries, Belmont, Cal., recently vacationed in Canada.

## BUNTINGS'

**ASPARAGUS, RHUBARB, HORSE-RADISH**

We are the largest growers of garden roots in America. Get our quotations whether you need a thousand or a million. Plan to visit us sometime this summer and inspect the stock.

**BUNTINGS' NURSERIES, INC.**

Box 3

Selbyville, Delaware

## ROSES

GROWN RIGHT - GRADED RIGHT - SHIPPED RIGHT

Plenty of **Whites and Yellows** for those who order early. In **Hybrid Teas** and **Climbers**.

**Peach, Plum, Flowering Almond** and **Flowering Peach**. Budded on Peach in Missouri.

Write today for varieties and prices for early booking.

**OZARK PLANT FARMS, INC.**

R. F. D. 3

Springfield, Mo.

## EARLY HARVEST BLACKBERRIES

One of the most reliable of all bush fruits. Ripens early, before hot, dry weather. Bears freely. No. 1, root-cutting plants —Rust-free.

\$4.00 per 100; \$35.00 per 1000; \$300.00 per 10,000.

**THE WILLIS NURSERY CO.**

Wholesale Nurserymen  
Ottawa, Kan.



# New Books and Bulletins

## ARBORETUM DIRECTORY.

To meet frequent requests for an up-to-date directory of arboreta and botanical gardens, there is now available a paperbound book of something over 100 pages, a reprint from *Chronica Botanica*, entitled "The Arboreta and Botanical Gardens of North America," by Dr. Donald Wyman, of the Arnold Arboretum.

In behalf of the American Association of Botanical Gardens and Arboreta, Dr. Wyman sent out a questionnaire to all of the institutions in the field, and the data taken from those questionnaires composes the greater part of the book. The article he wrote two years ago on "How to Establish an Arboretum" is included, as well as a bibliography, an index and some lists and maps to afford supplementary information.

The book has been published by the American Association of Botanical Gardens and Arboreta, and orders, at \$1.50 per copy, may be sent to the secretary, G. E. Godshalk, Lisle, Ill. The publication was brought out with the cooperation of the American Association of Nurserymen, and interested members at the Boston convention received a copy of the book on its appearance from the press.

## AMERICAN BEGONIAS.

While primarily concerned with begonias grown in America, "Begonias for American Homes and Gardens," by Mrs. Helen K. Krauss, refers historically to the introduction of the early species from foreign lands and the multiplication of varieties that has followed. This book of 250 pages, just published by the Macmillan Co., at \$4, attempts to trace the numerous hybrids of the present day and to clarify their nomenclature. How much of a task was involved would be understood by few aside from the begonia hobbyists of California and the plant specialists of our botanical gardens. The varieties today run into the hundreds.

Seven full-page genealogical charts trace the development of the principal groups of the genus—cane-stemmed, hirsute, rhizomatous, semperflorens-cultorum, rex-cultorum and tuberous-rooted. In a chapter devoted to each type are described numerous varieties, with synonyms indicated. Sixty-five photographs are reproduced to show various flower and leaf forms. Mrs. Krauss, director of the research and nomenclature de-

partment of the American Begonia Society, has presented clearly the results of a great amount of investigation.

The final quarter of the book describes the propagation and culture of the various types of begonias, with ten full-page drawings to make details clear to the novice. For house plants and gardens, the many forms of begonias are attracting the interest of a larger circle of amateurs.

## NEW BOOK ON DAHLIAS.

"Dahlias—What Is Known about Them" is the title of a 224-page

## AMERICAN NURSERYMAN

book just published by the Orange Judd Publishing Co., at \$2.50, as a guide to both professional and amateur growers. All phases of dahlia culture are discussed, including information on the time to plant, location, cultivating, mulching, disbudding, dwarfing and insects and disease.

An interesting feature is a chart described by three frequent prize-winners comparing their methods of growing. Also of interest is a series of illustrations tracing the history of the dahlia, comparing the outstanding varieties of today with those grown 125 years ago, with notes explaining the development of each type.

## BLUEBERRY PLANTS and ROOTED CUTTINGS

Order Now for Fall and Spring Shipment.

Prices on Request.

**H. B. SCAMMELL & SON.**

TOMS RIVER, N. J.

Grower of Blueberries Since 1920.

## WE OFFER... Our General Line of SMALL FRUIT PLANTS

Let us quote on your requirements.

**L. J. RAMBO'S WHOLESALE NURSERIES**  
Bridgman, Michigan

We have to offer for the coming season a complete line of Fruit Trees and Ornamentals. Also collected stock in Shrubs and Evergreens.

Let us quote on your requirements.

**DRIVER'S WHOLESALE NURSERIES**  
McMinnville, Tenn.

## SMALL FRUIT PLANTS

Evergreens — Shrubs  
Asparagus — Rhubarb

Send for Complete Trade List.

**W. N. SCARFF'S SONS**  
NEW CARLISLE, O.

## ILGENFRITZ NURSERIES, INC. THE MONROE NURSERY

Monroe, Mich.

Formerly I. E. Ilgenfritz' Sons Co.—Name Changed.

Quality Still The Best.

Our Peach Trees are extra fine this season.

	100 rate each	1000 rate each
11/16-inch	\$0.60	\$0.55
9/16-inch	.50	.45
7/16-inch	.40	.35
5/16-inch	.25	.20

Choice large Juniperus Pfitzeriana

	1 to 4 each	5 to 9 each	10 to 29 each
2 to 2 1/2 feet	\$4.00	\$3.75	\$3.50
2 1/2 to 3 feet	5.50	5.25	5.00

Many other fruits, evergreens, ornamental trees and shrubs available. Write for prices. Buy Ilgenfritz Quality Trees.

## Mahaleb Seedlings

American Plum Seedlings

Russian Olive Seedlings

Caragana Pea Tree Seedlings

Russian Mulberry Seedlings

Peach and Apricot Trees

**ROGERS WHOLESALE NURSERIES**  
Box 132 Winfield, Kansas

## ATTENTION NURSERYMEN!

We are now booking orders for fall shipments. Peach and Apple, 2 to 3 ft. 15c; Grape, No. 1, 2-yr., 8c. Prices are low on good-quality stock.

Write for list and prices.

**ROLLERS WHOLESALE NURSERY**  
Rogers, Ark.

## THE ACKERMAN NURSERIES

Telephone: Bridgman 34F2  
BRIDGMAN, MICHIGAN

### Growers of A General Line of Nursery Stock

★ ★ ★

GRAPEVINES  
RED LAKE CURRANT  
BLACK RASPBERRY  
RED RASPBERRY  
BLACKBERRY  
STRAWBERRY PLANTS  
BLUEBERRY PLANTS  
RHUBARB

New Crop Rhubarb Seeds,  
Linnaeus and Victoria.

★ ★ ★

We would be pleased to  
quote on your want list and  
would welcome your surplus  
list.

## SMALL FRUIT PLANTS and VEGETABLE ROOTS

We grow for the whole-  
sale trade only.

**KRIEGER'S WHOLESALE NURSERY**  
BRIDGMAN, MICH.

## CERTIFIED BLUEBERRY PLANTS

1-year Rooted Cuttings, 2 and 3-year  
Nursery Plants, all varieties; propagated  
from stock taken from our own produc-  
tive farms. **Guaranteed True to Name.**  
SEND for RIGHT WHOLESALE PRICES.  
Large quantities to Nurserymen, Deal-  
ers and Commercial Growers

or  
Small quantities to Home Growers.

**GALLETTA BROTHERS'**  
**BLUEBERRY FARMS**  
Hammon, New Jersey

## OUR SPECIALTIES

Jun. Pfitzeriana, B&B, and pots.  
Taxus in variety, R.C. tr. and pots.  
Weigela, Eva Rathke, 2-yr. frame tr.  
Viburnum Rhytidophyllum, R.C. and pots.  
Contracting now for future delivery.  
Correspondence invited. No catalog.  
**HUMPHREYS LANDSCAPE SERVICE**  
Mt. Sterling, Ky.

A few of the comprehensive chap-  
ters highlighting the book are "A  
Prizetaker's Last Twenty-four Hours  
Before Show," "The Trial Grounds,"  
"The Cloth House and Shading,"  
"Colchicine," "American Dahlia  
Society Trial Ground Score Sheets,"  
"Today's Experts' Dahlias" and "To-  
day's Dahlias that Win Most Often."

## AMERICAN ROSE ANNUAL.

Those interested in garden roses  
will find the American Rose Annual  
for 1947 again a compendium of rose  
information of the most up-to-date  
type. It also affords ample reason for  
membership in the American Rose  
Society, Harrisburg, Pa. This book  
of 250 pages was edited by Dr. R. C.  
Allen, secretary of the society, and its  
frontispiece is a late portrait of Dr. J.  
Horace McFarland, who was respon-  
sible for the first twenty-eight in this  
series of annuals.

The short articles contained in the  
book cover most of the various phases  
of the garden culture of roses. Re-  
ports from abroad again appear in  
this issue.

Full-page color plates of some of  
the new varieties add attraction to  
the volume. Of pertinent interest are  
a classification of polyantha roses, a  
list of new varieties and "The Proof  
of the Pudding," a record of mem-  
bers' experiences with the newer  
varieties.

## FROM NEW YORK GARDEN.

### Plants of Vicinity of New York.

Descriptions of more than 1,500  
plants that grow wild within 100  
miles of New York city are included  
in the manual entitled "Plants of the  
Vicinity of New York," a new edition  
of which has just been published.  
Prepared by H. A. Gleason, curator  
at the New York Botanical Garden,  
and first published in 1935, this book  
of 284 pages is designed for use by  
beginners in plant identification. It  
serves as a convenient and reliable  
guide to the plants that are most  
commonly found anywhere from the  
region just south of the Catskills to  
the southern tip of New Jersey and  
west to the eastern counties of Penn-  
sylvania. The book is published by  
the New York Botanical Garden at  
\$2 a copy.

### Review of Chinese Junipers.

P. J. van Melle, Poughkeepsie,  
N. Y., is the author of "Review of  
Juniperus chinensis, et al," published  
by the New York Botanical Garden,  
at \$2. The book represents the result  
of many years of study of living

# MALONEY'S

Offer for Fall, 1947, and  
Spring, 1948—2-year **Standard**  
**Apple and Pear, Sweet and**  
**Sour Cherry.** We can furnish  
**Sweet and Sour Cherry,** also  
in 1-year. 1-year **Peach.**

2-year **Shrubs,** bushy, well  
rooted, twice transplanted. A  
good assortment of **Ever-**  
**greens.**

Write for Wholesale List.

We would appreciate re-  
ceiving your Wholesale List,  
as we are buyers of many  
items for our Retail Trade.



**MALONEY BROS.**  
**NURSERY CO., INC.**  
Davenport, New York  
Established 1884

RED LAKE CURRANTS  
RED RASPBERRIES  
Hansen's BUSH CHERRY  
PARADISE ASPARAGUS

**ANDREWS' NURSERY**  
**CO.**  
FARIBAUT, MINN.

## FRUIT TREES

**HARRISON BROTHERS**  
**NURSERIES**

G. Hale Harrison, General Manager  
BERLIN, MARYLAND



Wholesale growers of the best  
Ornamental Evergreens,  
Deciduous Trees,  
Shrubs and Roses  
Write for our current trade list.  
**THE KALLAY BROTHERS CO.**  
Painesville, Ohio

plants, as well as of specimens in the leading herbaria of the east.

The book of 108 pages takes up the many varieties and forms of juniperus which have been "commonly included in the current, loose concept of *J. chinensis*." The author lists more than 100 names that have appeared in literature, and he reclassifies the junipers of this group in the light of his own investigations. The book is illustrated with a dozen full-page plates of various forms of juniperus. There is a key to the species and a supplementary key headed "Distinctive Characters of Varieties and Formae."

#### pH AND PLANTS.

In the measuring of soil acidity the term pH has come into the nurseryman's vocabulary in recent years as an easier equivalent of the cumbersome phrase, hydrogen-ion activity.

Nearly as widely important as temperature in many biological and industrial processes, it has an application much beyond that of the soil. Those interested in the relation of pH to various forms of plant life will find ample to whet their curiosity in the book, "pH and Plants," by Dr. James Small, professor of botany at Queen's University, Belfast, Ireland, just published in this country by D. Van Nostrand Co., New York, at \$4. This book of 216 pages is subtitled "An Introduction for Beginners," but it is primarily for the scientific investigator into this field. The language and equations are beyond the ordinary layman, though a plantsman may find interesting information in its pages. One will be impressed with the wide application of various pH phenomena to plants by the references and examples in the text, as well as by the selected bibliography of twelve and one-half pages.

#### "PRACTICAL EMULSIONS."

The second and completely revised edition of "Practical Emulsions," by H. Bennett, published by the Chemical Publishing Co., at \$8.50 a copy, touches only lightly on the theoretical aspects and concentrates on the art of making and applying emulsions. Mr. Bennett, technical director of Glyco Products Co., Inc., has attempted to build a foundation for practical work.

Emulsions are used in many fields of industry and science, including agricultural sprays and water paints. Formulae are presented in detail, accompanied by instructions for mixing.

Mr. Bennett has added to this

## We Specialize in—

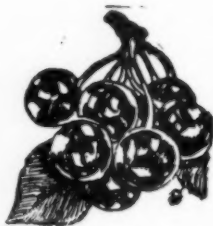
**Two-year Apple**

**One-year Peach, Plum, Apricot and Cherry**

**Apple and Pear Seedlings** — Our blocks of seedlings are on brand-new land. Free from aphids and other insect pests.

**Important:** We are centrally located on many railroads and truck lines and can reach you without delay.

**L. R. TAYLOR & SONS — Topeka, Kansas**



Est. 1877

## 50,000 FRUIT TREES

**Sour and Sweet Cherries, Plums, Apple and Quince.** A fine 2-year-old block. Will make attractive prices.

**CALL'S NURSERIES**  
Call Road Perry, Ohio

We specialize in these outstanding products:

**Chipman's Canada Red Rhubarb**

**Pixwell Gooseberries**

**Minn. Fruit Farm creations.**

**SUMMIT NURSERIES**

Stillwater, Minn.

**Peter Grootendorst J. M. Son**

**BOSKOOP, HOLLAND**

Exporters of Nursery Stock since 1898

**Rhododendrons, Azaleas, Shrubs, Trees, Peonies, Liners, etc.**  
Catalog free on application.

## THE HOMESTEAD NURSERIES

H. G. BENCKHUYSEN — Proprietor — BOSKOOP, HOLLAND

**FOR BETTER VARIETIES OF**  
**Azaleas, Rhododendrons, Magnolias, Peonies, etc.**

**Grapevines, Currant Roots,  
Currant Cuttings and Berry Plants.**

Small Fruit Specialists.

**WEST HILL NURSERIES**  
Fredonia, N. Y. Since 1875

## SMALL FRUIT PLANTS

We again offer our complete line of  
Grapes, Currants and Berry Plants.

Now booking orders for 1947.

**FOSTER NURSERY CO., INC.**  
69 Orchard St. Fredonia, N. Y.



**VUYK VAN NES****BOSKOOP****HOLLAND**

Originators of Azalea Vuykiana (Hardy Dutch Hybrid Azaleas), large-flowering, bloom with foliage; in one white variety and several in nonfading colors.

Propagators and growers of choice nursery stock. All types of Azaleas, Rhododendrons and other broad-leaved Evergreens, Conifers, Roses, Shrubs and Perennials.

Exports to the U. S. A. receive special preparation, cleaning and packing for best results. All stock carefully graded. New York office handles all import details at no extra cost.

Please direct all your correspondence to:

140 Cedar Street New York 6, N. Y.  
**VUYK VAN NES NURSERIES**

**HOLLAND PEAT MOSS**

Best quality, large bales, properly packed by a group of the largest producers operating extensive highland moors and well equipped mills. Carlots of 300 bales or more only. Write.

**HOLLAND BURLAP SQUARES**

Uniform quality, two tape edges for tying. Made by the largest mill in Holland, whose exclusive distributors we have been since 1921. Stock on hand and being made. Order now for prompt or later delivery.

**HALF MOON MANUFACTURING & TRADING COMPANY, INC.**

90 West Street New York, N. Y.

**Holland-Grown  
Nursery Stock**

Shrubs and Trees,  
including liners.  
Rhododendrons and Azaleas  
Hardy Perennials  
Peonies

**NOVELTIES IN ALL LINES**

Ask for wholesale catalog.

**F. J. Grootendorst & Sons**

Boskoop, Holland

Growers and exporters since 1903.

Our new 1947-48 catalog has been mailed to the trade. If you have not received your copy, write to our agent in Canada.

JOHN B. McHARDY, 390 St. Paul St.,  
St. Catharines, Ontario, Canada.

**BULK & CO.**

Specialists in  
Azaleas, Rhododendrons, Japanese  
Maples, Magnolias, etc.

BOSKOOP, HOLLAND

**AZALEAS—CAMELLIAS  
and GARDENIAS**

See price list in Classified Ads.  
Write for catalog

**NATIONAL NURSERIES, Biloxi, Miss.**

second edition special sections on the use of soap, lecithin and pectin as emulsifying agents and on surface-active germicides.

The most recently developed emulsion formulae have been added to the formula section. Technologists, manufacturers, chemists and students in all fields of research and industry will find the comprehensive list of emulsifying agents valuable.

**CHEMISTRY IN FOODS.**

First published in England in 1942 and now in its second American edition, "The Chemical Composition of Foods," by R. A. McCance and E. M. Widdowson, department of medicine, University of Cambridge, presents a background of knowledge for the study of dietetics and nutrition. The Chemical Publishing Co. is the publisher of the book, which is priced at \$3.75 and contains 156 pages.

The new edition is a result of the demands of the nutritional problems and new discoveries about dietetics which were brought about by the war. No changes have been made in the form of the main tables or text, but figures relating to a number of new food and raw materials have been added. Over 540 varieties of food are analyzed.

**VARIETY REGISTER.**

Reprinted from the Proceedings of the American Society for Horticultural Science, a "Register of New Fruit and Nut Varieties, List No. 2," has been compiled by Reid M. Brooks and H. P. Olmo, of the University of California at Davis, Cal. The society plans to publish annual lists, in which current introductions of varieties are to be emphasized.

Comments on the origination, introduction and chief characteristics of current commercial varieties are given for the various fruits and nuts. Names of patented varieties are listed by patent number, and an alphabetical list of varieties considered in this list will be a reference aid.

**GREENHOUSE BENCH.**

To meet the numerous inquiries regarding benches for greenhouses, an article about the construction and building of a greenhouse bench was published in a recent issue of the Michigan agricultural experiment station quarterly bulletin. Copies of this 4-page article may be obtained by writing to the author, Prof. C. H. Sherwood, Department of Horticulture, Michigan State College, East Lansing, Mich.

**Budding Scions  
Peach and Cherry  
Buds**

Place your order immediately. Prompt service. Quality buds that will arrive in perfect condition.

**PEACH BUDS**

Ready (Now) August 15.

Redhaven Elberta  
Halehaven J. H. Hale  
Golden Jubilee

**CHERRY BUDS**

Ready August 25.

Montmorency Schmidt  
Windsor Napoleon  
Bing Black  
Tartarian

Write or Wire  
on Quantity Prices.

**SOUTH EASTERN MICHIGAN  
NURSERY**

1515 Hurd Road  
Monroe, Mich.

**GULDEMOND'S**

Broadway Station

Newport, R. I.

The new Holland Plant List will be ready in a few weeks. Write for your copy at once.

**Tree Peonies** in variety.

Representing **Guldemon & Co.,**  
Boskoop, Holland, since 1874.

**FRUIT TREES**

East Malling Stocks

Rosebushes and Herbaceous plants

Buy from a firm specializing in  
exporting plants.

**PEPINIERES VANVERT FRERES & FILS**  
S.P.R.L.

Obourg, Belgium

Ask for quotations on items you  
need, indicating quantities.

**We wish to purchase...**

Evergreens, Fruit Trees,  
Shrubs, etc.

Send your surplus list to  
**THE PONTIAC NURSERY CO., Romeo, Mich.**





## CALIFORNIA ASSOCIATION OF NURSERYMEN

JACK LINCKE, Executive Secretary

215 West Seventh St., LOS ANGELES 14, CALIF.

### CALIFORNIA VIRUS DISEASE CONTROL.

As a result of a meeting arranged by the California Association of Nurserymen between state department of agriculture officials and growers of deciduous trees, a plan seeking to control the spread of virus diseases in the state was adopted July 8.

At this meeting, which was attended by H. M. Armitage, chief of the bureau of entomology and plant quarantine; Wray Hiltabrand, of the state nursery service; Dean Palmer, president of the county agricultural commissioners' organization; H. J. Ryan, agricultural commissioner of Los Angeles county, and a number of deciduous fruit-tree growers, the following procedure was adopted:

"People wishing to cut budwood will first obtain a permit from the county agricultural commissioner concerned. The latter will have previously had his budwood areas inspected by a plant pathologist and certified as being apparently free from virus diseases."

The plan is designed to minimize the possibility of using infected budwood. Simultaneously with the enactment of the measure, the state will set up interstate quarantines requiring other states to give California's industry equal protection. The program will not affect budwood cut prior to the issuance of the order, which will not take place until after September.

### PREPARE PAMPHLETS ON GOOD ADVERTISING.

According to information received from a representative cross-section of members of the California Association of Nurserymen, one of the most valuable services performed for the members by the state office during the past year has been the dissemination of advertising training material.

Approximately a year ago, Jack Lincke, the group's executive secretary, recognized that the nurserymen were not receiving their money's worth in advertising copy. This was due largely to the fact that but a small number of members placed their advertising in the hands of an agency. Consequently, they were at

the mercy of newspaper advertising copy-writers and, in most instances, were not getting attractive, customer-drawing ads. Far too many of the advertisements appearing in newspapers lacked appeal, were made up in unattractive type faces, were too crowded and were not telling the nursery's story to the public in a manner which would induce people to buy.

After obtaining an authorization from the board of directors to spend the necessary funds, Mr. Lincke succeeded in obtaining the services of W. T. Adams, one of the outstanding men of the nationally known J. Walter Thompson advertising

agency. Mr. Adams prepared a series of twelve brochures on the ABC's of selling merchandise through advertising. These were made up in simple, readily understandable, outline form. Each unit consists of about ten pages of copy, including five which have several pages of illustrations of good and poor advertising.

In the words of a large number of the members, this series has enabled them, for the first time, to learn the simple ingredients of an advertisement which sells merchandise. Also, it has enabled them to determine whether or not their advertising is failing to do its job and why. Of no less importance than the foregoing is an excellent treatise on budgeting, which has made it possible for many

### SPECIAL

We can now offer some very good prices on **Dormant Budded Peach, Plum and Apricots** for 1948 delivery.

Be sure to get your contract orders in before we finish our budding for this season.

**SISK NURSERIES**  
Winchester, Tenn.

### ROSES

Two-year-old, field-grown plants. Send for wholesale list.

*Maywood Rose*  
**Nursery**

P. O. Box 5033 Portland 13, Ore.

### Learn

FOR  
PLEASURE  
OF PROFIT

•  
TO START  
YOUR OWN  
BUSINESS

•  
TO IMPROVE  
YOUR  
PROPERTY

### LANDSCAPE GARDENING

A thorough interesting home training covering your regional conditions for both those who wish to become LANDSCAPERS, DESIGNERS and GARDENERS, and those who wish to learn for their own use and pleasure.

EMPLOYEE TRAINING

Nurserymen from Maine to California are using this training to upgrade employees. It may be of help to your organization.

Send for FREE BOOK  
APPROVED FOR VETERANS  
NATIONAL LANDSCAPE INSTITUTE  
Dept. N-8, 310 S. Robertson, Los Angeles 36

**Serving Oregon's Trade**  
— SALES AND SERVICE —  
Kemp Power Soil Shredders  
Miller's Agricultural Chemicals

**FRED P. H. CLYDE**

Horticultural Supplies  
816 S. W. Barbur Blvd.  
Cherry 3522 Portland 1, Ore.

### RED RHUBARB

Chipman's Canada Red  
KEELER'S GARDENS  
Sioux Falls, So. Dak.

### SMALL FRUIT PLANTS

Blakemore, Klondike, Missionary, Aroma, Tennessee Beauty, Tennessee Supreme, Tennessee Shipper, Gem, Streamliner, Strawberries, Youngberry, Thornless Boysenberry, Regular Boysenberry.

Prices on Request.

### MULLINS PLANT FARMS

410 Brookfield Ave. Chattanooga, Tenn.  
Phones: 2-9955, 4-3575

### TO THE TRADE

We offer our usual line of **Fruit Trees; also June Bud Peach and Pecan Trees.**

**COMMERCIAL  
NURSERY CO.**

Decherd, Tenn.

## COAT 25% OF YOUR SEEDS NOW!

Learn the advantages of FILCOAT seeds on your farm.

- (1) Small or irregular-shaped seeds made easy to handle and plant with precision.
- (2) Save on seeds—lower seedling costs.
- (3) Save labor of thinning—transplanting.
- (4) Smooth, firm Filcoat coating, softens easily when moistened, for fast, uniform growth.

Filcoat is the trademark of the Filtrol Corporation which offers this seed coating service. (We do not sell seeds.) You furnish the seeds—we process them to Filcoat Seeds for a minimum charge.

Write for full information.

**FILTROL CORPORATION**  
634 S. Spring St., Los Angeles 14, Cal.  
(Agricultural Department)

### MYROBALAN SEED

LOVELL PEACH PITS

Nation's Leading Source

Write today for quotations.



### PEACH PITS

CALIFORNIA LOVELL SEEDS

Also

Apricot and Myrobalan Seeds.

1947 Crop.

By ton or car.

Write for prices.

### GRAY NURSERIES

P. O. Box 498 Elverta, Calif.

### Send for Our Seed List.

**A. B. C.**

**"Supreme" Quality SEEDS — PLANTS — BULBS**  
and

Growers' Accessories

**AMERICAN BULB CO.**

1335 W. Randolph St. CHICAGO 7  
31 W. 27th St. NEW YORK 1

### SEEDS

Collectors of Tree, Shrub and Wild Flower Seeds

Crude Drugs and Ornamentals

**E. C. MORAN** Stanford, Mont.

members to allocate advertising money properly at the correct times of the year.

The complete series covers the following topics: The Four "Ws" of Advertising, Your Advertising Plan, How to Choose and Use the Proper Media, Writing Your Advertising Copy, Displaying the Selling Message—Layout, Mechanics of Reproducing Advertisements, Discussion of Good Ads vs. Bad Ads, Tricks or Treat, How to Merchandise Your Advertising, Direct Mail Advertising, Radio Advertising, and General Review of Your Advertising.

The material has been copyrighted by the California Association of Nurserymen and will shortly be made available to other nursery trade associations at a fraction of its original cost.

### L. A. GROUP HEARS REPORT ON PRICES.

A report on price expectancy for the coming year, as drawn up by a representative group of wholesalers and retailers, was presented by Tom Edwards, of Roy F. Wilcox & Co., Montebello, Cal., at the June 18 meeting of the Los Angeles chapter of the California Association of Nurserymen. From a long-range view, most growers expect prices to be a trifle lower for the coming year. The prices were not given as standard in any way, but were presented to the membership as a preliminary guide only and merely a basis of what nurserymen might expect, as seen by those closest to the problem.

John J. Weyler, Sec'y.

### SAN DIEGO MEETINGS.

The San Diego chapter of the California Association of Nurserymen met June 19, called to order by President F. G. James. A letter from Jack Lincke, executive secretary of the state association, was read, inviting two or three members to spend a day or two at his office and report back to the chapter any suggestions or proposals they might have as to the operation of the office.

Secretary Lincke reported that a large percentage of members are encountering customer resistance, and he asked if our prices had reached the point where customers will balk. Members expressed their opinions on the wholesale costs of merchandise, and the consensus was that citrus, avocados, junipers and arborvitae are the most overpriced of all stock purchased.

The chapter held its July meeting

## Growers of THE WEST'S FINEST LINING-OUT STOCK

AZALEAS  
CAMELIAS CONIFERS  
BROAD-LEAVED  
ORNAMENTALS

Send For Our  
Color Illustrated  
Wholesale Catalog



**monrovia**  
Nursery Co.

Duarte Rd. at Myrtle Ave.  
P.O. Box 196 Monrovia, Calif.

## DEL RANCHO FORTUNA

FRUIT TREES  
and  
GRAPEVINES

P. O. Box 548  
McFARLAND, CAL.

## NURSERY PACKING

Wood Feathers (Baled Red Cedar Shavings) are valuable to use when packing bare roots or deciduous stock for shipment because of their large moisture-absorbing capacity. Will keep roots moist in transit or storage. The most economical of packing materials and the easiest to use.

**Wood Feathers**

MONARCH SHINGLE CO.

P.O. Box 37, North Portland, Ore.

## BALED SHINGLE TOW

(CEDAR SHAVINGS)

**WM. A. JOHNSTON**

408 Postal Bldg., Portland 4, Ore.

## NOTICE

Limited production makes it impossible to book orders for new customers.

**HOWARD ROSE COMPANY**

Hemet, California

**ORDER NOW****for 1947-48****Apple Seedlings****Pear Seedlings****Chinese Elm Seedlings**

We specialize in these items.

Our quality is tops.

**WASHINGTON NURSERIES**

Toppenish, Wash.

**FRUIT and NUT TREES**

**Filbert Trees a Specialty**  
 Two-year—Nursery-grown—  
 Transplants  
 Quality Supreme  
 Barcelona (and Pollenizers,  
 DuChilly and Daviana)

**CARLTON NURSERY CO.**

"Over Half a Century"—Since 1890  
 Forest Grove, Oregon

**EVERGREEN LINERS**

Rooted Cuttings. Fall Delivery.

	Per 100
Cham. laws, ellwoodi.....	\$10.00
Juniperus tamariscifolia.....	8.00
Juniperus com. fastigiata.....	8.00
Taxus baccata aurea.....	8.00
Taxus baccata fastigiata.....	10.00
Taxus baccata procumbens.....	8.00

Write for fall price list ready about  
 Sept. 15 listing many varieties of Conifera,  
 Broad-leaved Evergreens, Perennial  
 Seedlings and Field Transplants,  
 etc. Terms: Cash with order, or 1/4  
 down, balance to be paid before ship-  
 ment is made. Orders promptly acknow-  
 ledged.

**MITSCH NURSERY**

Aurora, Ore.

**WESTERN MATERIAL**

	Per 100
DOUGLAS FIR, 8 to 12 inches.....	\$10.00
DOUGLAS FIR, 18 to 26 inches.....	25.00
WHITE FIR, 8 to 12 inches.....	10.00
GIANT ARBORVITAE, 6 to 16 inches.....	12.00
WESTERN HEMLOCK, 6 to 16 inches.....	12.00
SCOTCH BROOM, 8 to 16 inches.....	7.50
SPECIAL: 100 each, 6 above items.....	60.00

All material carefully gathered, extra-  
 well packed and shipped this fall. 25  
 per cent deposit required on C.O.D.  
 orders.

**COASTAL GARDENS**  
 SHERIDAN, OREGON

July 7. Jack Lincke again sent an invitation to visit the state office. A program of joint advertising was discussed.

Mr. Baker, of the state department of agriculture, was the guest speaker of the evening and reported a new control for camellia blight. He also said that a seed inspector will soon be active in the area and stressed the importance of proper labeling, which includes name of variety, name of the company, date of germination, etc. Grass seeds in one-pound packages must be tested every nine months and those in packages of five pounds or over, every fifteen months. Mr. Baker also emphasized the quarantining of stock as benefiting not only the nurserymen but also the public.

Preston Hodges, Sec'y.

**SAN FERNANDO MEETING.**

The June meeting of the San Fernando Valley Nurserymen's Association was held June 11 at the Patio restaurant, at Van Nuys, Cal. Forty members attended the meeting, which was called to order by President William Powell, of Van Nuys.

After the introduction of visitors, John Tappeiner, of Valleyheart Gardens, Van Nuys, talked about his specimens of perennials. He has one of the largest assortments in southern California.

William Clark read a letter received from Jack Lincke, executive secretary of the state association, regarding suggested prices on nursery stock and asking that members of the San Fernando association spend some time at the state office to learn more about the work being done there.

Paul E. Lombard, Sec'y.

**BLACK MOLD AS CAUSE OF ROSE GRAFT FAILURE.**

Of importance primarily on greenhouse roses in grafting frames and in nurseries where the plants are budded, the black mold, or Manetti mold, Chalaropsis thielavioides, has become known in recent years as a cause of graft failure of roses. Infected buds are quickly killed and blackened, and the cut surfaces of scion and stock are blackened, preventing union.

Of the common understocks, Rosa odorata and R. chinensis, variety manetti, are exceptionally susceptible to the fungus. R. multiflora is moderately so, and Ragged Robin is immune. The rose form of the fungus is pathogenic to numerous other roses and woody plants, but the lupine, walnut and Chinese elm forms are nonpathogenic to roses.

**FOR 1947-48 SEASON**

**Fruit Trees**  
**Small Fruits**  
**Fruit Tree Seedlings**  
**Flowering Trees**  
**Shade Trees**  
**Shrubs**  
**Roses**

and a general assortment of other nursery stock.

Ask us to put your name on our mailing list. (Use your letterhead.)

**RICH & SONS NURSERY**  
 Hillsboro, Oregon

**PACIFIC COAST NURSERY**

**2244 N. Skidmore Ct.**  
**Portland 11, Ore.**

Pioneer seedling growers on the Pacific Coast since 1914.

Specializing in fruit tree seedlings. Angers Rooted Quince Cuttings, Chinese Elm Seedlings and English Privet.

We aim to please  
 with quality stock.

John Holmason &amp; Sons, Props.

**MAHONIA AQUIFOLIUM**

1-yr., field-grown seedlings, row run,  
 \$30.00 per 1000; \$4.00 per 100.

Liberal count. No packing charge if  
 check accompanies order.

**MOUNT VERNON NURSERY**

Mount Vernon, Wash.

**PELARGONIUMS**

**Custom Grown for**  
**California Nurserymen**

Any variety, any size, any de-  
 livery time! Write NOW for  
 details and prices.

**Birchlane Farm**

275 Locust Ave. San Rafael, Calif.

**PRONOUNCING DICTIONARY of Plant Names**

64 pages, 3000 names, 25¢ per copy  
 American Nurseryman Chicago



The fungus is disseminated by infected plant parts, irrigation water, spattering waterdrops, soil and by workers. It survives in soil or buried plant parts for nearly a year. Infection occurs only through wounds, and the fungus is aggressive only on dormant plant parts.

Kenneth F. Baker and H. Earl Thomas, of the division of plant pathology of the University of California, writing on "Failure of Bud and Graft Unions of Rose Induced by *Chalaropsis Thielavioides*," in *Phytopathology*, believe that graft failure caused by the fungus can best be avoided by the use of budded roses, fungus-free rootstocks, sanitation of tools, farms, etc., and chemical treatment of stems prior to grafting. Bud failure is rare and can be prevented by immediate planting of cuttings or, when necessary, by storing them at 0 degrees centigrade. Rotation with an immune crop, the use of immune Ragged Robin rootstocks, high budding into canes later made into cuttings and precaution against spread by workmen are other means of preventing the failure.

#### GOLD MEDAL ROSE.

A gold medal for the finest new rose seedling in the world was recently awarded to an entry of the Armstrong Nurseries, Ontario, Cal., according to the San Francisco News. Shown at the Bagatelle Gardens, Paris, France, where the Bagatelle competition was resumed this summer for the first time in a decade, the new variety was then and there named Applause.

A progeny of Charlotte Armstrong and Contrast, Rose Applause is the creation of H. C. Swim, head of the research department at Armstrong Nurseries. The flowers are immense deep pink blooms of from forty to sixty petals. The bush is tall and many branching, and its leatherlike foliage is mildew-resistant.

#### CALIFORNIA ARBORETUM.

The Los Angeles County Arboretum is the name given the tract of land now being developed by the county. The land was formerly part of Rancho Santa Anita, owned by "Lucky" Baldwin, and came into possession of the county last January.

A number of prospective names for the land were submitted by the public, and the board of supervisors made the final selection. Plantings of rare trees, shrubs and other flora, patterned after the Kew Gardens, England, are now underway at the 104-acre arboretum.

## PORTLAND WHOLESALE NURSERY CO.

306 S. E. 12th AVENUE

Avery H. Steinmetz

PORTLAND 14, OREGON

Paul E. Van Allen

### Quality Stock

CONIFERS AND BROAD-LEAVED  
EVERGREENS  
SHADE AND FLOWERING TREES  
FRUIT TREE SEEDLINGS  
FRUIT TREES  
DECIDUOUS SHRUBS  
VINES AND BULBS  
PORTLAND ROSES  
NURSERY SUPPLIES

### CAMELLIA LINERS

From 2½-inch Rose Pots.  
Also a good supply of 2-yr.,

3-yr. and 4-yr. Camellias.  
Our 1947-48 catalog is now  
ready.

Rubber Budding Strips  
Tree and Pot Labels

*Write for our Catalog*

### A. MCGILL & SON

FAIRVIEW, OREGON

Wholesale Only

#### GOOD WESTERN-GROWN NURSERY STOCK

Fruit Tree Seedlings  
Flowering Ornamental Trees  
Shade Trees

Grown right and packed right.

Combination carloads to Eastern  
distributing points will save you  
on freight.

### MILTON NURSERY CO.

MILTON Since 1878 OREGON

Flowering, Ornamental and  
Shade Trees

Oregon and Washington-grown  
Fruit Tree Seedlings

Angers Quince  
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Our Combination Carlots to  
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Use your letterhead for corre-  
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EVERGREENS - Propagators & Growers  
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Wholesale Growers  
of  
General Nursery Stock

### HYBRID RHODODENDRONS and CAMELLIAS

Landscape size; free of noxious  
weeds. If you buy from us once,  
you should be a regular customer.

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### AS ALWAYS— OREGON'S BEST SOURCE of GOOD ROSES

Limited crops reserved for  
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PETERSON &amp; DERING

Wholesale Rose Growers  
Scappoose, Oregon

# CLASSIFIED ADS

25 cents per line.

Minimum order, \$2.00.

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**POT-GROWN STRAWBERRY PLANTS**  
Pot-grown strawberry plants will bear crop of berries next spring. More than equals the difference in the price between pot-grown plants and field-grown plants. June bearers, \$9.00 per 100. Varieties: Ambrosia Late, Big Joe, Blakemore, Catskill, Chesapeake, Dorsett, Dunlap, Fairfax, Fairpeak, Gandy, Maytime, Midland, Missionary, Premier, Redstar, Starbright, Royal Sovereign, Sparkle, Everbearers, \$10.00 per 100. Gem, Gemzeta, Mastodon, Streamliner. Shipping now.

WARREN SHINN, Woodbury, N. J.

**CULTIVATED BLUEBERRY PLANTS**  
Big demand for Cultivated Blueberry plants this fall. New Jersey is the home of blueberries. Send for list of varieties. Place your order early.

WARREN SHINN, Woodbury, N. J.

**Surplus Stock**  
can be easily and quickly turned into

Cash

Listing it in the  
American Nurseryman Classified Ads.

## BULBS AND TUBERS

**HOLLAND-GROWN BULBS**  
**DARWIN TULIPS**, 11 to 12 cm., \$5.00 per 100.  
Ileu Amiable (blue), La Tulipe Noire (brownish), William Pitt (red), Helen Eakin (white), Dresden China (light Rose), Rose Copeland (rose), Sunkist (yellow), Pride of Haarlem (red), Mascotte (salmon), Afterglow (apricot), Bartigon (red), Yellow Giant (yellow), William Copeland (lavender).

**BREEDER TULIPS**, 11 to 12 cm., \$5.50 per hundred.  
Pink Pearl (pink), Velvet King (velvet), Brocade (yellow), Feu Ardent (red), La Singuliere (white).

**REMERANDT TULIPS**, 11 to 12 cm., \$3.00 per 100.  
American Flag (red and white), Cordell Hull (red on white).

**COTTAGE TULIPS**, 11 to 12 cm., \$5.50 per 100.  
Advance (scarlet), Albino (white), Golden Harvest (yellow), Dido (orange), G. W. Leak (geranium).

**TRIUMPH TULIPS**, 11 to 12 cm., \$5.00 per 100.  
Aviator (red and white), Ursula Minor (yellow), Glory of Noordwijk (ilac), Knorrefors (red), Konos (white).

**MENDEL TULIPS**, 11 to 12 cm., \$5.50 per 100.  
Van der Eerden (rosy red), White Sail (white), Early Queen (rose).

**PARROT TULIPS**, 11 to 12 cm., \$15.00 per 100.  
Fantasy (pink), Blue Parrot (purplish), Therese (red), Gadelan (deep mauve), Sunshine (yellow).

**SINGLE EARLY TULIPS**, 11 to 12 cm., \$5.00 per 100.  
Brilliant Star (scarlet), Mon Tresor (yellow), White Swan (white), This (Pink), Van der Neer (lavender).

**DOUBLE EARLY TULIPS**, 11 to 12 cm., \$5.00 per 100.  
Azalea (pink), Murillo (white), Vunbrook (scarlet), Schoonoord (white), Van der Hoef (yellow).

**HYACINTHS**, 16 to 17 cm., \$13.00 per 100.  
Gertrude (pink), L'Innocence (white), Bismarck (blue), City of Haarlem (yellow), King of the Violets (purple).

**CROCUS**, 8 to 9 cm., \$2.50 per 100.  
King of the Blues (blue), Golden Yellow, Striped Beauty (white and blue), King of the Whites.

**KING ALFRED DAFFODILS** (Round), \$5.00 per 100.  
**MUSCARI-GRAPE HYACINTHS** (azureum blue), \$1.50 per 100.

**BENTON COTTON NURSERY CO., INC.**  
Rogers, Arkansas

**IRIS**  
Priced per 100: 25 at same rate. Labeled. Paulette, Sunmist, \$10.00. Plurabelle, \$12.00. Eros, Jerry, Winnesheik, \$15.00. Blue Gown, Frank Adams, Gudrun, Narain, Sierra Blue, Wasatch, William Carey Jones, \$20.00. Madam Ullman, Copper Lustre, \$25.00. Bonor, \$30.00. May Day, Matula, Wabash, \$35.00. City of Lincoln, Garden Magic, \$50.00.

**SHEYENNE GARDENS**  
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**IRIS**  
10 for \$1.50, 25 at same rate. E. Roosevelt, Autumn Queen, Jean Siret, Crystal Beauty, Gold Standard, Coronation Imperial, Evolution, Red Dominion and Winnesheik, 10 for \$2.00. Cash with order.

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## EVERGREENS

### CAMELLIAS

For fall shipment quantity orders only, 25 per cent deposit will reserve your order. Order NOW for choice selection.

**STANDARD CAMELLIAS**, such as Chandleri Elegans, Pink Perfection, Cameo Pink, Monarch, Sarah Frost, Gloire de Nantes, Prof. Sargent, Abby Wilder, Jarvis Red, Pope Plus, etc.

**Roots dipped**  
in mud. In pots.  
12 to 18 ins. .... \$1.25 \$1.75

**RARE CAMELLIAS**, such as Debutante, Purple Dawn, Lee's Pink, Kumasaka variegated, Nagasaka, Alba Superba, Gigantea, Victor Emanuel, Laurel Leaf, Col. Firey, Gov. Mouton, St. Elmo, Glen 40, Margharita Calceolis, Lady Van Sittard, Rev. John Bennett, Mme. de Strekaloff, Woodville Red, Pink Ball, Purity, Ethelington White, Snow Drift, Rose Dawn, Dalkagura, etc.

**Roots dipped**  
in mud. In pots.  
12 to 18 ins. .... \$2.25 \$2.75

**Rooted cuttings**, \$45.00 per 100.  
Check with order, please.

**NATIONAL NURSERIES**  
Dept. 26 Biloxi, Miss.

**LINING-OUT EVERGREENS**  
Taxus, 3-in. pots Per 100

Cuspidata, 10 to 12 ins. .... \$30.00  
Cuspidata, 12 to 15 ins. .... 40.00  
Hicks, 10 to 12 ins. .... 25.00  
Hicks, 12 to 15 ins. .... 35.00

**Arborvitae**  
Globe, 10 to 12 ins. .... 25.00  
Pyramid, 10 to 15 ins. .... 35.00  
American, Dk. Gr., 12 to 15 ins. .... 30.00

**Juniper**  
Andorra, 12 to 15 ins. .... 30.00

**FINISHED EVERGREENS**  
Arborvitae Per 100

Siberian, B&B, 2 to 3 ft. .... \$200.00  
American, B&B, 3 to 4 ft. .... 225.00  
Globe, B&B, 15 to 18 ins. .... 125.00

**Juniper**  
Excelsa stricta, B&B, 18 to 24 ins. .... 200.00  
Communis hibernica, B&B, 3 ft. .... 200.00

**Pin**  
Austrian, B&B, 3 ft. .... 250.00  
Scotch, B&B, 3 ft. .... 225.00  
Mugho, B&B, 2 to 2½ ft. .... 200.00

**Spruce**  
Norway, B&B, 3 to 4 ft. .... 200.00  
White, B&B, 2 to 2½ ft. .... 225.00

**LINCOLN HIGHWAY NURSERY**  
Upper Sandusky, Ohio.

For Fall and Spring Delivery.  
B&B EVERGREENS

These trees are grown in central Missouri. They have been well cared for and sheared. We will deliver by truck orders of over 300 and smaller orders where we can ship with a large order. We will deliver free within 300 miles of St. Louis. A small fee for each 100 miles over 300 will be charged. Our price on all plants delivered is \$1.75 each.

**Irish Juniper**, 3 to 4 ft.  
**Greek Juniper**, 18 to 24 ins.  
**Andorra Juniper**, 18 to 24 ins.  
**Pfitzer Juniper**, 24 to 30 ins.  
**White Spruce**, 24 to 36 ins.  
**White Pine**, 3 to 4 ft.  
**Norway Spruce**, 2 to 4 ft.  
**Baker Arborvitae**, 3 to 4 ft.  
**Beckmann Arborvitae**, 18 to 24 ins.

We will be glad to mail you our price list on lining-out stock and fruit trees. We expect cash on delivery.

**WYMAN NURSERY**  
Kolola Springs, Miss.

**AZALEAS**  
Quantity orders, \$5.00 minimum.

India or large type: Fisher Pink, Pride of Mobile, Pride of Dorkin, Elegans:

**Roots dipped 4-inch**  
in mud. pots.  
10 to 15 ins. .... \$0.50 \$0.75  
6 to 10 ins. .... 30 50

**Dwarf or Kurume Azaleas: Hinodegiri, Coral Bells, Salmon Beauty, Hexe, Snow:**  
5 to 8 ins. .... \$0.50 \$0.75

Check with order.

**NATIONAL NURSERIES**  
Dept. 26 Biloxi, Miss.

**LINING-OUT STOCK**  
Per 100 Per 1000

Pachysandra Terminalis .... \$ 4.00 \$ 40.00  
Red Jap. Maple, pot gr. grafts 75.00  
Andromeda Jap., pot gr., R.C. 25.00 200.00

Taxus cuspidata, 1-yr. bedded 15.00 125.00  
Taxus capitata, 1-yr. bedded 25.00  
Taxus Hicks, 1-yr. bedded 15.00 125.00

Taxus Hatfield, 1-yr. bedded 17.50 150.00  
Taxus brevifolia, 1-yr. bedded 20.00  
Tsuga canadensis, 2-yr. tr. .... 7.00 60.00

Complete list of liners, including Azaleas, Rhododendrons, etc., on demand.

**VERKADE'S NURSERIES**, Wayne, N. J.

**Pieris japonica**, 2 yr. tr., 8 to 12 ins.  
**Azalea alte clarens**, 2-yr. tr., 4 to 10 ins.  
**Azalea babaut**, 2-yr. tr., 4 to 10 ins.  
**Rhododendron ponticum**, grafting size.  
**Rhododendron hybrid seedlings**, 6 to 10 ins.  
**Picea excelsa**, grafting size.  
**Acer palmatum atrop.** seedlings, 2-yr., tr., 6 to 10 ins.

Shades and prices on application.

**RHODE ISLAND NURSERIES**  
Newport, R. I.

## TAXUS

Columnaris, Andersoni, Browni.  
3-year, bedded, \$30.00 per 100.

Andersoni, Browni, Hicksi, Hatfieldi, Media, Capitata (limited), strong 2-year-old plants, out of 2½-in. pots, \$22.00 per 100.

Delivery on above now or later.  
Hicksi, Browni, Media, Media Hedge, Capitata, Cuspidata, Columnaris, large size, strong rooted cuttings for late summer or fall delivery, \$12.00 per 100.

**WM. MATTFELD GREENHOUSES**,  
Crawford and Springlawn Ave.,  
Cincinnati 23, O.

Per 100 Per 1000

**3600 THUJA OCCIDENTALIS**  
(American Arborvitae), 10 to 16 ins., heavy, field row-grown .... \$17.00 \$135.00

**2300 CANADIAN HEMLOCK**,  
8 to 10 ins., X. .... 15.00 125.00

The lot for \$250.00.  
Terms: Cash with order. Free packing.  
Shipped prepaid.

**WHERRY'S NURSERIES**  
St. Marys, W. Va.

**NEW INTRODUCTION**  
**AZALEA HINO-CRIMSON**

Showy, clean, crimson-red, nonfading flower. Large, glossy, dark green foliage. Excellent forcer. A cross between Hinodegiri and Amoena and harder than Hinodegiri. Ask for color photo. From 2½-in. pots, \$25.00 per 100; limit, 250. Cash with order.

**JOHN VERMEULEN & SON, INC.**  
Westbury, L. I., N. Y.

**GARDENIAS**, Hadley and Veitchi  
Quantity orders.

**Roots dipped 4-inch**  
in mud. pots.  
10 to 15 ins. .... \$0.50 \$0.75  
8 to 10 ins. .... 30 50  
4 to 8 ins. .... 20 50

Check with order.

**NATIONAL NURSERIES**  
Dept. 26 Biloxi, Miss.

**AZALEAS**  
For Forcing and Landscape Planting.

Delivery Fall 1947.  
Hinodegiri, Coral Bells, Salmon Beauty, Snow, Pink Pearl, 6 to 8 ins., 8 to 10 ins., 10 to 12 ins. Beautiful bushy plants. Write for prices.

**GULF STREAM NURSERY, INC.**  
Wachapreague, Va.

**BUXUS JAPONICA**  
True dwarf Boxwood.

4 to 6 ins., branched. Prewar quality. Immediate shipment, or later.  
\$6.00 per 100; \$55.00 per 1000.

Samples at list price. Cash, please.  
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11738 Welby Way, North Hollywood, Cal.

**NORWAY SPRUCE**  
Over 3000 for Christmas Trees, or many can be used as Ornamentals or Windbreaks. Look them over and make an offer.

**PRATT NURSERY**  
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**CHOICE EVERGREENS**  
Pyramids, Globes, Mughos, Irish and Pfitzers. Reasonable.

**BILLY WEST**  
P. O., Brookville, Ohio  
(Route 49, ½ mi. north of Phillipsburg, O.)

**BARGAIN!**  
700 Pfitzer Junipers, 18-in. spread or more, \$300.00 for all cash. Dig your own.

A. G. HEISE, 2730 Carpenter Rd. (US 23),  
Ann Arbor, Mich. Telephone: 257702.

200,000 2 to 6-ft. Blue, White and Norway Spruce, 80,000 liners, mostly Blue Spruce, 30,000 cut trees for Christmas, 5 to 7 ft.

**I. C. PATTON EVERGREEN NURSERY**  
Shepherd, Mich.

1100 ANDORRA JUNIPER, 10 to 12-in. transplants, trimmed twice, nicely shaped, \$40.00 per 100. **NORTH RIDGE NURSERY**, Elyria, Ohio.

**FRUIT TREES**  
**FRUIT STOCK**  
Quotations wanted on any part, or all.

300 Peach, 500 Apricot,  
100 Apple, 100 Plum, 50 Nectarines,  
50 Cherry and 250 Pear. Grade:  
1-inch and up, 5 ft. and up.

Please quote on first-class stock only. Well shaped tops and good roots. For choice heel-yard trees.

**TRAUERNICHT NURSERY CO.**  
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Fort Worth 2, Texas

**HARDY PLANTS**  
Send us your perennial want list. Perennial prices listed now available.

**VITTNER'S GARDENS**  
Manchester, Conn.  
Perennial Growers

**HARDY CHRYSANTHEMUMS**  
Send for our 1947 catalog.  
Cultural notes on cut flowers and pot plants.

**C. C. BREECE**  
Rt. 2, Delaware, Ohio

## PEONIES

	Per 10	Per 100	Per 1000
Alexandre Dumas	3.00	27.00	\$250.00
Candidissima	4.00	35.00	300.00
Chestnut Gowdy	10.00	85.00	600.00
Edulis Superba	3.00	27.00	250.00
Festiva Maxima	3.00	27.00	250.00
Karl Rosenfeld	7.50	60.00	500.00
Lady Lenora Bramwell	3.00	27.00	250.00
L'Esclatante	7.50	60.00	500.00
Mme. Jules Desmet	10.00	125.00	.....
Mons. Jules Elie	6.00	55.00	500.00
Reine Hortense	6.00	55.00	500.00
Sarah Bernhard	6.00	55.00	500.00
Queen Victoria	3.00	27.00	250.00

Peonies according to color:

White and Pink	3.00	25.00	230.00
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PHIL LUTZ PEONY FARMS

Boonville, Ind.

## DELPHINIUM BELLADONNA IMPROVED

1-year field seedlings \$30.00 per 1000.

## NEW CROP SEEDS

PACIFIC HYBRID SEEDS, mixed colors.  
1 oz., \$2.50; 4 oz., \$8.00; 1 lb., \$28.00.  
Send for trade list.

STRATFORD GARDENS, Delaware, O.

AJUGA GENEVENSI, excellent evergreen ground cover, hardy, blossom resembles small delphinium, 6 ins. high, mass of blue in May, 2-year plants, \$4.00 per 100.

## LONGMEADOW NURSERIES

15 Parkside Longmeadow, Mass.

PEONIES, IRIS and HEMEROCALLIS in wholesale lots reasonably priced. List on request. MISSION GARDENS, Techny, Ill.

## SEEDS

PEACH PITS, Lovell, 1 to 5 bu., \$3.00 per bu.; 5 to 25 bu., \$2.85; 25 to 100 bu., \$2.75; 100 bu. and up, \$2.50.

## WAYNESBORO NURSERIES

Waynesboro, Va.

PEACH PITS, southern-collected; high germination, \$3.00 per bu. Fruit trees, shrubs. RIVERDALE NURSERIES, Riverdale, Ga.

## SHRUBS and TREES

## FALL DELIVERY

1-year Cuttings.

	Per 100	Per 1000
Ligustrum ovalifolium,		
15 to 24 ins.	3.00	\$25.00
Forsythia spectabilis,		
15 to 24 ins.	5.00	35.00
Spiraea vanhouttei	5.00	.....
Weigela Eva Rathke	10.00	.....
Lonicera tat. alba	4.00	.....
Philadelphus coronarius	3.50	.....
Aralia pentaphylla	4.00	.....

## 1-year Seedlings.

Berberis thun.	4 ins. and up, row run.	2.50	20.00
Berberis, thun. atropurpurea,	4 ins. and up, row run.	3.50	30.00
Ampelopsis veitchi	.....	3.50	30.00

## 1-year Root Grafts

Lilacs	.....	2.50	22.00
Sou. de Ludwig Spaeth	.....		
Belle de Nancy	.....		
Jan van Tol	.....		
Mme. Felix	.....		
Charles Joly	.....		

## 2-year Transplants.

Forsythia spectabilis	.....	1.75	15.00
Ligustrum ovalifolium	.....	1.00	9.00

All stock subject to prior sale.

## VAN HOF NURSERIES

Middletown, R. I.

BARBERRY LINERS for fall or spring.  
Thunbergi (green-leaved) Per 100 Per 1000  
1-yr. sdgs., 5 to 9 ins. \$2.50 \$20.00  
Thun. atropurpurea (red-leaved)  
1-yr. sdgs., 3 to 6 ins. 3.50 30.00  
1-yr. sdgs., 6 to 9 ins. 4.50 40.00

## NYVELDT'S NURSERY

313 Willets Ave. New London, Conn.

LILACS, French Hybrids and Standard varieties. One-year grafts, best flowering varieties, \$25.00 per 100, \$225.00 per 1000.

## DEERFIELD NURSERIES

Deerfield Street P. O., N. J.

## VEGETABLE PLANTS

## CHIVE PLANTS

Florists now getting ready to pot Chives for greenhouse business during the winter. \$5.00 per 100; \$40.00 per 1000. Ship now, also later.

WARREN SHINN, Woodbury, N. J.

## SUPPLIES

## PROFIT WITH PERF-O-RAIN.

Rain when you want it—Low pressure—Rectangular strip watered—No overlap—No sprinkler heads or other gadgets—Portable lightweight pipe—Long life. Write for free folder. W. R. AMES COMPANY OF FLORIDA, 3905 E. Broadway, Tampa 5, Florida, or W. R. AMES COMPANY, 150 Hooper St., San Francisco 7, Cal.

## PRINTING

Letterheads, billheads, statements, cards, envelopes, tags, blotters, folders, catalogs, samples. Send copy for estimate.

J. GARLAND HILL, Dept. A, Seaford, Del.

## PROPAGATING KITS FOR GROWERS

Again available for propagating benches in the following units complete with soil thermostat, pilot lamp, all-glass thermometer, and long-life HEATSUM CABLE, the product of 13 yrs. research in our greenhouses.

Unit Sq. Ft. Wattage Voltage Length & Price

Heated	No units
"A" 20	120 1— 60 ft. \$14.95
"B" 40	120 2— 60 ft. 18.35
"C" 60	120 3— 60 ft. 23.50
"D" 80	120 4— 60 ft. 27.65
"E" 150	120 1— 500 ft. 32.70
"F" 300	240 1—1000 ft. 52.50

For Stainless Steel instead of glass soil thermometer with any of the above kits, add \$2.75.

Stainless Steel Soil Thermometer...\$4.75.

All prices F.O.B., Seattle.

L. N. ROBERSON CO.

1539 East 103rd St. Seattle 55, Wash.

## KNOCK-DOWN PLATS

Made from a good grade of Southern Yellow Pine, since Cypress is not available.

Standard specifications, inside measurements.

16x12x2 1/2	.....	\$16.25 per 100
16x14x3 1/4	.....	20.50 per 100
20x14x2 1/2	.....	20.00 per 100
20x14x3 1/4	.....	25.00 per 100
22 1/2 x15x2 1/2	.....	22.00 per 100
22 1/2 x15x3 1/4	.....	25.00 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per flat. Our Plats are the best. Why pay more? Our quality guaranteed. Prompt shipment, any quantity. Attach check to order.

HIGHTOWER BOX & TANK CO.

Birmingham, Ala.

## FINE-SCREENED DOMESTIC PEAT.

Acid pH 4-8. Some Nitrogen.

Our peat is excellent for lawns, cold-frames, perennial seedbeds and preparing soil for evergreen and shrubby plantings.

Per 2-bu. bag

1 to 4 bags	.....	\$2.00
5 to 24 bags	.....	1.00
25 to 49 bags	.....	.95
50 to 100 bags	.....	.90

Write for price on bulk carload. We ship same day order is received. Order early. Cash, please.

HAASE BROS.

2516 California Ave. Peoria, Ill. P. O. Box 386

## SPHAGNUM MOSS

Wisconsin's Quality Sphagnum Moss. Clean, long-fibered, solidly packed in burlapped or wired bales of standard size.

None better.

Trucked when feasible.

WARRENS MOSS CO., Box 7, Warrens, Wis.

GIBRALTER Frost Covers pay for themselves. Economical, long-lasting, ideal for windbreaks, 6 ft. wide; 50 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. NEW AMSTERDAM IMPORT, 122 Chambers St., New York 7, N.Y.

## BUDDING STRIPS

Best Natural Rubber. All sizes for rose-bushes, fruit trees, etc. Quantity price as low as 82c per lb. Free samples.

THE M. CONLEY CO., Canton 1, Ohio.

## WANTED

## WANTED

Named Pyrethrums.  
BILLY WERT  
P. O. Brookville, Ohio.  
(Route 49, 1/2 mi. north of Phillipsburg, O.)

FLOWERING TREES WANTED

Apple, Cherry, Peach, Redbud, Lilac, Almond. Shrubs.

ARTHUR V. LEY

La Plata, Md.

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## TRADE BOOKS.

PRUNING TREES & SHRUBS, by Ephraim Porter Felt, \$2.50.

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CRAB APPLES FOR AMERICA, by Donald Wyman, \$1.00.

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BEGINNING IN THE NURSERY BUSINESS, by John J. Finney, 50c.

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PROPAGATION OF PLANTS, by M. G. Kains and L. M. McQuesten, \$3.50.

These books may be obtained, postpaid, at the publishers' prices indicated, from

AMERICAN NURSERYMAN  
343 South Dearborn Chicago 4, Ill.

## FRUIT VARIETIES SURVEY.

[Continued from page 10.]

America, Diamond, Elephant Heart, Gold and Opat.

Present and future preference lists differed greatly in the southern states from those of the north. In present use, Methley is first, followed by Italian Prune, Red June, Shiro (Early Gold), German Prune, Reine Claude, Abundance and America. Methley remains at the top of the list for preference in future planting, with succeeding choices going to Red June, Italian Prune, Omaha, America, Shiro and German Prune. Growers were evenly divided for and against future use or discard of Gold and Abundance, but recommended heavy discard of Reine Claude.

The western growers, like the northern growers, now prefer Italian Prune, but their next favored varieties differ from those in other sections. Second on the list for present use is Satsuma, followed by Duarte, Diamond, Red June, Formosa, Omaha and Underwood. Satsuma also occupies second place on the list for future use. Other varieties growers would use in future plantings are Duarte, Red June, Formosa, Abundance and Underwood.

## Grape Varieties.

Forty-eight bunch varieties and eighteen muscadine varieties were listed for checking on the grape variety survey. Data are reported only on the first group, however. Concord is the outstanding bunch grape variety, maintaining first place over the country for both present and future use.

Concord, Niagara, Fredonia, Delaware and Catawba head the list of grapes planted in the north Atlantic states, and growers indicate that these varieties should continue in future use.

In the north central states, Niagara follows Concord for present and future use. Several other varieties, Moore's Early, Worden, Agawam, Ives, Caco, Portland and Sheridan are also being grown now. But with the exception of Sheridan, these would be relegated to the discard list.

Southern growers also favor Concord and Niagara, followed by Moore's Early and Lutie, Fredonia, Catawba, Portland, Delaware and Ives. All of these varieties were indicated for future use, with preference given to Concord, Fredonia and Niagara.

While Concord led with western growers for present as well as future planting, second choice now is for Campbell's Early, but this place would be given to Worden on the



future list. Golden Muscat is being planted in this section now and would be retained, but Beta, which is now in eighth place, would be discarded along with Catawba.

### COVER ILLUSTRATION.

#### Lavandula Officinalis.

Lavandula officinalis, true lavender, is considered as a perennial herb rather than as a woody shrub. It has long been a favorite as a fragrant plant in the old-fashioned garden. It is a native of southern Europe and northern Africa.

Lavandula officinalis is a herbaceous perennial of about one and a-half to three feet high, with hairy branches and opposite, silvery-gray foliage with slightly rolled margins.

The lavender-blue flowers are produced in spikes on stems standing well above the foliage. An abundance of flowers is produced from July through September. Several varieties are recognized, varying in size and flower color.

Lavender should be planted in light, well drained soil and sunny situations. Some winter protection is advisable. Propagation is by seeds, sown in early spring. Strong seedlings will develop if some shade is provided and a moist medium is maintained.

Lavender is used in several ways. Dried leaves and flowers are often used in the household because of their fragrance. Since both the gray foliage and the flowers are attractive, lavender is often used in the herbaceous perennial border, in rock gardens, as bank cover and for low hedges.

L. C. C.

### CATALOGS RECEIVED.

Curtis Nurseries, Callicoon, N. Y.—Wholesale price list of azaleas, rhododendrons, shrubs and evergreens; 4 pages, 4x9 inches.

Doty & Doerner, Inc., Portland, Ore.—Descriptive price list of camellias for fall; 4 pages, 8x11 inches.

Homestead Nurseries, Boskoop, Holland.—Trade catalog of rhododendrons, azaleas and general nursery stock; 40 pages and covers, 6 1/4 x 9 3/8 inches.

O. H. Perry Nursery Co., McMinnville, Tenn.—Wholesale price list of forest tree seedlings, flowering shrubs, evergreens and vines; 16 pages, 3 7/8 x 9 inches.

McMinnville Tree Co., McMinnville, Tenn.—Wholesale price list of tree seedlings, shrubs, vines and evergreens; 6-page folder, 3 7/8 x 9 3/4 inches.

Carl Purdy Gardens, Ukiah, Cal.—Catalog of California and other western American bulbs and plants; illustrated, partly in color; 32 pages, 8 1/2 x 11 inches.

A. J. OTTILIE and his son are starting the Lake Wilson Nursery, at Lake Wilson, Minn.

## WANT ADS

Help and Situation Wanted and For Sale advertisements.

Display: \$3.00 per inch, each insertion.

Lines: 25¢ line; minimum order \$2.00

### FOR SALE

Our entire nursery, consisting of 55 acres, well stocked. Warehouse, 3 greenhouses, dwelling house, office and garages. Motorized equipment; all necessary tools for complete wholesale business. Selling because of ill health of owner.

C. L. VANDERBROOK & SON  
P. O. Box 125, Sta. "A"  
Manchester, Conn.

### HELP WANTED

Landscape architect or college graduate in nursery field with some designing and with practical experience. Must be able to estimate, sell and supervise planting and construction. We are well established and have a large clientele. We are located in the central part of Ohio. Address Box 508, care of American Nurseryman.

### HELP WANTED

Man for landscape department—one who can draw plans, make contacts and help supervise landscape operations. Experienced man preferred, but will consider ambitious person who has had some experience in drawing plans. Car essential. Give age, experience, references, family and minimum pay required.  
BUSCH NURSERIES, INC.  
R. D. 1, Thompson Run Rd. Allison Park, Pa.

### SITUATION WANTED

Nursery manager or superintendent. Middle-aged man, married, available Sept. 1. Experienced in all lines, wholesale and retail, propagating and selling. 20 years' experience. References from many leading nurseries if necessary.

E. H. MARTENS  
278 Pick Ave., Elmhurst, Ill.

FOR SALE—A Little Gold Mine. For the price of the land and buildings only. Stock, business and good will thrown in. 5-room modern home, 2-story barn, large lath house with concrete walks to display and sell stock. On 4-lane concrete highway between Detroit and Chicago, 3 miles from city of 65,000. About 36 acres land, 300-ft. frontage, \$20,000.00, with \$7,000.00 down, balance monthly. Have pressing business in another state, only reason for selling. Write Box 513, care of American Nurseryman.

FOR SALE—Nursery, \$55,000. 5 acres evergreens; 7 acres trees; 29 other acres; heavy soil; orchard; 11-room house; 3-car garage; shop; near Twin Cities, on busy U. S. highway 212. HUDSON NURSERY, R. 1, Hopkins, Minn.

NURSERYMEN—Greenhouse and Nursery properties. Licensed Realtors, specialists in this type of property. List with us for good results. HORTICULTURAL REALTY CO., 135-39 Northern Blvd., Flushing, N. Y.

HELP WANTED—Wanted man or woman trained and experienced in landscape design, capable of preparing sketches, plans and estimates and able to supervise planting and construction. Write letter giving references, education and experience. Address Box 512, care of American Nurseryman.

HELP WANTED—Single man wanted with experience in tree trimming and tree surgery, also in planting and general landscape work. Give references and wages expected. Address THE SWISS LANDSCAPING, 1833 Roosevelt Ave., Indianapolis 18, Ind.

HELP WANTED—Vet preferred; to learn tree seed collection and extraction and seedling production. On-the-job training; salary, share or bonus basis. Equity in business possible after proving ability. HARRY P. RIGDON, Stillwater, Okla.

HELP WANTED—Experienced greenhouse man to do propagating. Write, giving experience and salary expected, to BENEDICT NURSERY CO., 735 N. E. 87th Ave., Portland 16, Ore.

### FOR SALE

Fox River Valley Nursery for sale. Has fine modern bungalow, large greenhouse, 55-ton coal bin and boiler room, 50 x 100-foot insulated stock shed, 30 x 50-foot packing shed, barn and equipment, several acres in ready-to-sell stock. Owner retiring; can remain another year to assist new owner in the successful landscape business that has been a most profitable line. Location being on a main highway between cities, nursery has a remarkable year-around retail trade. You may purchase a share or the entire business—financing on long terms. Write, call or see:

HERMAN OFFUTT REALTOR,  
Aurora, Ill.

### FOR SALE

At Phoenix, Arizona, a going wholesale nursery established 1930; average gross \$32,000.00 per year; priced at \$70,000.00 including \$18,000.00 stock.

STERLING HEBBARD  
Adams Hotel Phoenix, Ariz.

### FOR SALE

Retail, Landscape and Wholesale Nursery; plenty of equipment, buildings and stock. Excellent season just ahead. Good season for selling; priced right. For particulars, write Box 510, care of American Nurseryman.

### FOR SALE

Old established ornamental nursery and landscape business located in Georgia on paved road; 3 houses; 48 acres; more landscape work than can be done this fall; fine business for a younger man. \$40,000.00, half cash. Address Box 511, care of American Nurseryman.

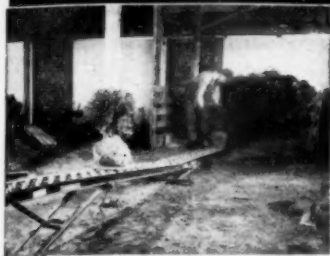
### FOR SALE

Highly profitable landscape business, together with established nursery of 10 acres of finest young stock, equipment and modern residence, with 30 acres of finest land for expansion. An opportunity rarely offered. Address Box 503, care of American Nurseryman.

### FOR SALE

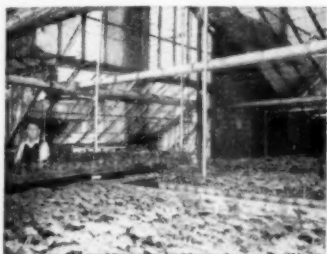
Nursery located in region of dense population within 100 miles of Chicago. Local wholesale, retail and mail-order trade. Completely equipped. Will sell all or part interest. Address box 509, care of American Nurseryman.

## Nurseries Too, PROFIT by MODERN HANDLING METHODS



Loading shrubs by Rapid-Wheel Conveyor at the Lindley Nurseries, Inc., Greensboro, N. C. This installation has effected a considerable savings in both labor and costs.

Plants, potted in one end of a greenhouse, are placed on trays which travel over Rapid-Wheel Conveyor to concrete flats in another section. This has saved much hard work and extra handling of former trucking methods.



Faster handling of plants and shrubs on smooth rolling Rapid-Wheel Conveyors is "paying off" in decreased costs for many progressive nurserymen. One of these, Mr. J. Van Lindley, President of Lindley Nurseries, Inc., says: "With your equipment we are able to load our products on our trucks more rapidly than by methods formerly used—and at a considerable savings in cost. Our plants arrive at their destination in better condition because they are moved from one point to another in our warehouse on your conveyor without having to be handled several times by hand."

### RAPID-WHEEL GRAVITY CONVEYORS

... Can be set up anywhere in your nursery or greenhouse to convey plants and shrubs easily, efficiently and economically. There are eight standard models, two widths, each model varying in the number of wheels per foot. Standard 5' and 10' sections. Adjustable supports available.

Check these handling costs. . . . Write today for free information on how to reduce handling costs.



Manufacturers of  
STEEL FORGED CASTERS • TRUCKS • CONVEYORS • POWER BOOSTERS

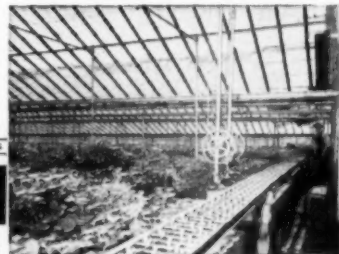
*The Rapids-Standard Co., Inc.*

Sales Div. 302 Peoples Nat'l Bank Bldg., Grand Rapids 2, Michigan



Weber Bros., Royal Oak, Michigan, are thoroughly pleased with the way Rapid-Wheel moves their flats of seedlings in and out of the greenhouse and onto trucks for delivery.

Rapid-Wheel Conveyor installation in a greenhouse takes up a minimum of space . . . provides easy movement of trays of plants to any part of the greenhouse.



### BRITISH ACTIVITIES.

[Continued from page 11.]

able to help and advise members regarding any legal problems they may be up against. Many of us also belong to the National Farmers' Union, a much larger body, to which we referred frequently for advice during the war when we were required to produce food crops. Our association is always anxious to cooperate wherever possible with other similar organizations, and I feel that we can learn something from the American Association of Nurserymen, which is older than ours.

As regards conditions in the nurseries generally, owing to scarcity of stock, a sellers' market still exists; labor is scarce, and a large number of us are still employing German prisoners of war. About twenty-five per cent of my employees are prisoners. We pay the government for their services the minimum agricultural rate, which has recently been increased to 90 shillings for a week of forty-eight hours. During the early years of the war we sold little, but trade in fruit trees picked up during the latter years, and there is now insufficient stock to meet the demand. We had to cut down our roses to ten per cent of our prewar

### Own a SOIL TEST LABORATORY Of Your Own



**\$22.50**

express paid

#### SUDBURY PORTABLE SOIL TEST LABORATORY

The most valuable piece of equipment you can own, giving you the soil information that you need for efficient production. Widely used by estates, professional growers and government field stations. Will last almost a lifetime with refills. Comes in instrument-type chest. No chemistry knowledge required. Complete with instructions and helpful chart. **SEND NO MONEY.** Order C.O.D. \$22.50, plus express charges (or send \$22.50 and we pay express). Money back guarantee. Immediate delivery.

Dealers write for Special Offer.

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**1947 BLUEBOOK OF SUPPLIES**

This complete Guide to Horticultural Supplies has been incorporated with the Summer Wholesale Seed List of our affiliate, The American Bulb Co., and is available without charge to any legitimate member of the trade. Send for your copy today!

**AMERICAN FLORIST SUPPLY CO.**  
A Division of American Bulb Co.  
1335 W. Randolph St. Chicago 7, Ill.

**NATURAL RAFFIA COLORED  
DISPLAY GRASS MATS  
SCATTER GRASS  
JULIUS LOEWITH INC.**  
120 East 16th Street New York 3, N. Y.

output, and we have generally poor crops this year. The present wholesale price is 250 shillings per hundred, approximately \$60.

One of our chief occupations in England at the present time is filling in forms. There are 103 forms to be filled in between the cow and our bottle of milk. I called on a farmer friend of mine last autumn and while I was there one of his men came along and asked if he was to put the oats in the big barn. The farmer replied, "No. Put them in the small barn, because we require the big barn for the forms."

### MASS VARIETY PRODUCTION.

Mass production methods are being adapted to the development of new varieties of fruits in the orchards and vineyards of the New York state experiment station at Geneva, according to Director A. J. Heinicke.

Where a hundred seedlings from a single cross may have been grown in the past with the hope of obtaining one or two seedlings of sufficient promise to justify further testing, a thousand or more seedlings from one cross will be produced, thus increasing the chances that something worth while will be developed.

"The chances of obtaining a seedling apple, pear, peach or whatever it may be of special merit are greater, the larger the number of individuals we have from which to choose," says Director Heinicke. With this point in mind, and as a beginning for a more intensified fruit-breeding program at the experiment station, Cornell University recently acquired a 145-acre farm in the vicinity of the station, to be known as the Cornell fruit-breeding farm. On this farm, nearly 47,000 seedlings from crosses of nine different kinds of fruits, including apples, pears, peaches, plums, grapes and small fruits, have already been grown.

In addition, in other plantations, there are 136,785 seedlings representing all of the hardy tree fruits, grapes and bramble fruits, making a total at the present time of about 185,000 seedlings under test. "This is an expensive and time-consuming project," says Dr. Heinicke, "but when one judges the results in terms of such new varieties as the Cortland, Macoun, Orleans and other apples, the Stanley plum, the Catskill strawberry, the Newburgh and other red raspberries, a long list of new grapes and other promising new fruits, the value of the effort to the fruit industry is apparent."



## Spread and Power

You can't do a quick, thorough job of pest control without wide spread and the driving power to force insecticide into every open space no matter how minute or hidden.

Mistmaster Ball Bearing Fan Type Sprayers have both the spread and the power to do a quick, thorough job. Driven by 1/3, 3/5, or 1 hp. motors, they spray insecticides for distances as far as 40 feet, penetrate into hard-to-reach places, and spray large areas quickly, completely.

Here is a sprayer that has more power than any other portable sprayer, yet is convenient and easy to handle, plugs into any electric outlet and can be used with both oil base and water base insecticides.

Write for Free Literature and complete information. Details of valuable dealer franchise supplied upon request.

# Sprayer CORPORATION of AMERICA

1714 Payne Street, Evanston, Illinois

## ATTENTION NURSERYMEN!



### IMP. SOAP SPRAY

Use 1 part with 25 to 40 parts of water

Ask your nearest seedsman, or  
write for literature.

THE AMERICAN COLOR AND CHEMICAL CO.  
176 Purchase St. Boston, Mass.

## SHINGLE TOW

Baled and Loose.

Carload shipments only.

From Wisconsin and Michigan.

## SHAVINGS & SAWDUST CO.

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## TRANSPLANTONE

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For Safer Transplanting

AMERICAN CHEMICAL PAINT CO., AMBLER, PA.

## SPRAY WITH C. P. O.

Use this Safe, Odorless, Non-Poisonous Spreader in place of fish oil soaps and summer oils.

### FOR BETTER CONTROL OF

Lace Bug	Pine Leaf Scale
Red Spider	Spruce Gall Aphid
Juniper Scale	Euonymus Scale
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And Most Sucking Insects on Evergreens and Ornamentals

Write for information and samples and learn how you can reduce cost of nicotine sprays one-half.

Crystal Soap & Chemical Co., Inc.

Department A N

6300 State Road, Philadelphia 35, Pa.

## "GRO-QUICK" ELECTRIC SEED BED HEATER

### BOTTOM HEAT CAN'T BE BEAT

For Early Plant Starting  
For High Germination  
For Fast Growth  
For Rooting Cuttings

200 watt Junior Cable for 20 sq. ft.	\$1.60
400 watt Senior Cable for 40 sq. ft.	3.20
Air Thermo with pilot light 1000 W.	3.75
Soil Thermostat with pilot light	9.50
Special 220 volt Cable for 80 sq. ft.	8.40

WRITE TODAY  
FOR EXPERIENCE REPORTS, PLANS.  
Prepaid at prices shown. Immediate delivery.

"GRO-QUICK" 366 W. Huron St.  
Chicago 10, Ill.



## SOIL CONSERVATION.

[Continued from page 8.]

of the time there is at least a partial cover of weeds, stover and stubble to protect the soil. In comparison, nursery stock is generally cultivated during the entire growing season and enters the winter season with hardly a weed or a spear of grass to protect the soil against the elements.

Data developed by the research division of the soil conservation service gives the following average soil losses for corn grown continuously and in various rotations on eight to ten per cent slopes in the Mississippi river valley:

Years of corn	Years of meadow	Average soil loss in tons on 8 to 10 per cent slopes
Continuous corn		32.48
1 after 1		24.36
2 after 1		27.61
3rd after 1		30.86
1 after 2		11.37
2 after 2		21.11
3 after 2		27.60
4 after 2		30.86
1 after 3		9.74
2 after 3		19.48
3 after 3		27.60
4 after 3		30.86

Years of Nursery Stock	Years of meadow	Average soil loss in tons on 8 to 10 per cent slopes
Continuous nursery stock		32.48
1 after 1		24.36
2 after 1		27.61
3 after 1		30.86
1 after 2		11.37
2 after 2		21.11
3 after 2		27.60
4 after 2		30.86
1 after 3		9.74
2 after 3		19.48
3 after 3		27.60
4 after 3		30.86

Summarizing these figures, it would appear that where nursery stock is grown continuously, the loss is about 32.5 tons per acre per year, or a total of almost 130 tons for a 4-year crop. In contrast, when grown following a 4-year sod, the soil losses will average only 20.86 tons per acre per year, or a total of 83.44 tons for a 4-year crop.

These figures show only the soil physically saved by soil-building crops. They do not reflect the build-up in quality and productive capacity obtained by good soil management.

Two important conclusions can be drawn from these figures: (1) Soil losses from nursery stock are reduced considerably immediately following a sod; and (2) sod alone will not prevent runoff and erosion much be-

DROUGHT!  
NOT FOR THIS GROWER

DON'T GAMBLE ON THE WEATHER

Using ATLAS PORTABLE OVERHEAD IRRIGATION EQUIPMENT the orchard of W. D. Kenyon Nursery of Dover, Oklahoma not only survived a severe drought but developed an unexpected growth of fine apples.

Many growers in the nation find inexpensive ATLAS PORTABLE OVERHEAD IRRIGATION EQUIPMENT solves their "RAINFALL" problem.

Write today for literature and prices.

"The Strength and Durability of Steel"

Manufactured and Distributed by

**ATLAS SUPPLY DIVISION**

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425 North Main Street

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**PORTABLE, ALL-BRASS  
CHAMPION GIVES YOU  
ALL-PURPOSE SPRAYING  
AT LOW COST**

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DDT • WEED KILLER • WATER PAINT**

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**CHAMPION SPRAYER CO.**

Mfrs. of Portable Sprayers and Dusters  
6509 HEINTZ AVENUE  
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**Control Red Spider  
The Easy Way.**

Dust with D. N. Dust No. 4

Originally developed to control European Red Mite on Apples, this has been found an excellent remedy to control Red Spiders on Evergreens. Easy to use—effective.

50-lb. bag, \$6.50.

Steuffer Knapsack Duster

The finest hand duster on the market. Designed to give complete satisfaction with all types of dusts.

\$28.75 each.

Feeney Hand Duster, Model N. H.

A medium-sized crank type that has been found excellent where smaller areas are to be dusted.

\$16.50 each.

**SOMERSET ROSE NURSERY, INC.**

P. O. Box 608

New Brunswick, N. J.



yond the second year of nursery stock.

The value of sod crops, however, should not be charged wholly to the prevention of erosion. While they contribute in this regard, they have an equal or even greater value in improving the physical structure of the soil. Sod crops, composed of grasses and deep-rooted legumes, are the best means of improving the physical condition, or tilth, of nursery soil. Grasses, such as brome, timothy and orchard grass, develop a dense, fibrous root system. For some time after such grasses are plowed under, the mechanical binding action of the many fine roots holds the soil in place. When decomposition begins, it proceeds slowly because of the fibrous nature of the roots, with the result that the products of decomposition are slowly available over a long period of time rather than in a "shotgun charge" all at once. In addition to supplying nitrogen for the grass in the mixture, the job of deep-rooted legumes, such as alfalfa, is to penetrate the soil with their tap roots. In this manner they improve internal drainage by opening up what may be termed drainage tubes into the subsoil.

A soil conservation program on a nursery has two primary objectives: (1) Soil management, to maintain the soil in good physical condition and increase fertility; and (2) supporting practices of a mechanical nature, to prevent the physical loss of soil on sloping land.

Soil management includes soil-building crops, fertilizers and, in most instances, lime, all tied together into a rotation with nursery stock.

Over the country as a whole, in nursery work the primary reason for soil-building crops and rotations is to maintain the physical structure, or tilth, of the soil. If this is accomplished, chances are that the fertility of the soil will be taken care of. If the fertility is down, the best way to correct it is to apply fertilizer to the soil-building crop. After the fertilizer is plowed under and decomposes, the plant nutrients gradually become available over a period of time to the nursery crop. In other words, do not fertilize directly but through the soil-building crop.

Soil without organic matter is not soil but dirt. To put it a little differently, organic matter is the fuel on which soil exists. Soil itself is a living, dynamic thing. As its organic fraction is increased, its whole process is speeded up.

The action of raw organic matter on the soil is physical. Roots, par-

## AUTOMOTIVE TREE MOVERS



The above is a picture of one of our 7-foot Rocker Type Tree Movers, owned and operated by the Laur Shade Tree Service, St. Louis, Mo. The tree is a large sugar maple weighing slightly more than five tons. This is the third mover purchased from us by this company.

On short hauls it is possible to move five or six big trees within a day's time. We can use this mover as a crane to load trailers or other trucks for longer hauls.

Place your order early so that you will not be disappointed as all steel stocks are scarce and our production is limited. Write for further information.

## WILLIAMS & HARVEY NURSERIES

Box 7068, Country Club Station

Kansas City 2, Mo.

### Tree Wound Dressing

Arborist Tree Wound Dressing is a scientifically prepared waterproof composition for application to tree cavities, wounds or other exposed wood of trees. It contains no coal tar, carbolineum, creosote, nor any material injurious to the cambium layer or the life of the tree.

Arborist Tree Wound Dressing possesses antiseptic and fungicidal properties, being waterproof, adhesive and elastic, giving a durable tree wound dressing which will not harm the living tissue.

Per gal.

1-gal. can (6 in case) ..... \$1.00  
30 and 50-gal. drums ..... .75

ARBORIST SUPPLY CO., INC.

Dept. A. N. I

Rye, N. Y.

### Big "RAINBOW" Sprinkler



Sprinkles areas up to 50 ft. square without having to be moved. Has 17 nozzles. Oscillates. Waters evenly. Adjustable for different size areas. Does the work of three or four ordinary sprinklers. Only \$45.00. F. O. B. Detroit. Also complete irrigation equipment.

Free CIRCULAR

WHITE SHOWERS, INC.

17514 Woodward  
Dept. F, Detroit 3, Mich.

### PERFECTRIM



A guiding tool for shaping Evergreen Trees. Adjustable any size any shape. You can shape Evergreens in 8 to 12 minutes.

#### TWO MODELS

PERFECTRIM Sr. for trees up to 12 feet tall. Can also be used for Hedges.

List Price \$15.00

PERFECTRIM Jr. for trees only up to 6 feet tall.

List Price \$10.00

All steel, chrome plated. Lifetime guarantee. Individually boxed.

ATTRACTIVE DEALER SET-UP

### BEETS-INC.

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### CHARLES SIZEMORE Traffic Manager

319 1/2 Georgia St., Louisiana, Mo.

Loss and damage claims against railroad and express companies collected.

Freight bills audited.

Past due notes and accounts collected.

Well known to the nurserymen of the country.

Reference: Bank of Louisiana.



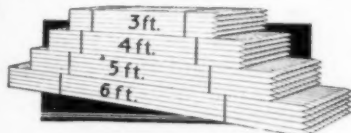
### HOTBED SASH

Genuine Dense Virgin

#### CYPRESS

The kind that lasts and lasts.  
Strictly No. 1 Quality.

Arranged for 3 rows 10-in. glass. Junior 3 x 4 feet open, \$2.75; glazed, \$5.50 each. Standard 3 x 6 feet open, \$4.16; glazed, \$8.32 each. Standard sash have 1/2-in. galvanized steel cross bar through center.



### PLANT STAKES

50 Pieces to Bundle

3/4 x 1/2-in.—3 ft.	.....\$1.50 per bundle
1x1-in.—3 ft.	.....2.00 per bundle
1x1-in.—4 ft.	.....2.50 per bundle
1x1-in.—5 ft.	.....3.50 per bundle
1x1-in.—6 ft.	.....4.50 per bundle
1x1-in.—7 ft.	.....5.50 per bundle

These stakes are made of mixed hardwoods and cypress. They are good, strong stakes and will give long service. Order by Express for quick delivery.

### ALUMINUM PAINT



Once again we can furnish that fine aluminum paint that was off the market during the war. The quality has no equal. Highly water and weather-proof—retains its elasticity for years and adheres readily to any surface. 30-gal. Drums, \$3.60 gal.; 5-gal. Kegs, \$3.70 gal.; 1-gal. Cans, \$3.80 gal.

### GLAZING POINTS

These glazing points are pure zinc with spiked heads; point is beveled to hold tight against the glass. Do not confuse these pure zinc points with cheap galvanized brads. Pure zinc will never rust. Save yourself future repairs by using only Pure Zinc Points. The Everlasting Kind.

#### All Sizes 60c per Pound Package

3/4-inch.....	1200 points per lb. pkg.
1/2-inch.....	960 points per lb. pkg.
3/8-inch.....	800 points per lb. pkg.

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#### GLAZING STAPLES

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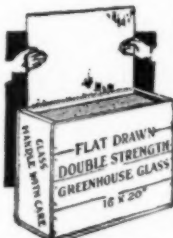
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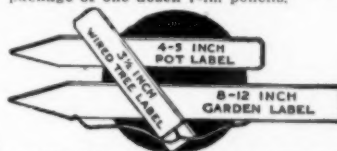
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3 1/4 x 5/8 ins. Notched, not wired.....	\$2.50	\$2.50	\$3.00
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	Price per carton	Plain	Painted
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10x5 ins. (Ctns. 500 ea.).....	3.00	3.50	

### GARDEN STAKES

	Price per carton	Plain	Painted
8x 7/8 ins. (Ctns. 250 ea.).....	\$2.00	\$2.25	
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ticularly those of the sod-forming grasses, mechanically bind together particles of soil. Also, most organic residues have a spongelike ability to hold moisture.

When organic matter starts to decompose, its soil-building function begins and continues until the matter is completely oxidized. When this last stage is reached, there is nothing to do but add more organic matter. It is not a stable thing.

Here it should be mentioned that in any organic residue, the rate of

decomposition is proportional to the amount of nitrogen present. The relationship is known as the carbon-nitrogen ratio. Legumes have a narrow ratio because they contain a large amount of nitrogen. They decompose quickly. Sawdust has a wide ratio because it contains relatively little nitrogen. For this reason, sawdust decomposes slowly. When heavy applications of dry straw or sawdust are plowed under, poor growing conditions may follow for a period of time. This is not be-

cause straw or sawdust are toxic, as some people suppose. Rather it is because the soil organisms feeding on the straw or sawdust take the nitrogen from the surrounding soil and tie it up so that it is not available to plants until the organisms themselves die and release it.

As decomposition proceeds, the air space, or porosity, of the soil is increased. This phenomenon increases soil aeration and water-holding capacity. In the case of tap-rooted plants, particularly legumes, such as

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alfalfa, the space occupied by the root becomes a small drainage tube after the root decomposes, thus facilitating internal drainage of the soil.

The lignin, fats, waxes and resins in organic matter are not acted on quickly by soil organisms. They decompose slowly and the end product of their decomposition in organic form is humus. Humus is something we seldom see. It is a brown, jelly-like substance that exists as a coating over the individual particles of the soil. Organic matter in the form of humus principally affects the physical condition, or tilth, of the soil. Soil particles coated with humus have the property, under varying conditions of moisture and temperature, to bind together into groups, or aggregates.

A soil well aggregated is said to be in good tilth. Although other forces, such as alternate wetting and drying, and freezing and thawing, all contribute to soil structure, their effect is generally limited and temporary. To maintain aggregation, or tilth, on a sustained basis, organic matter must be provided continuously.

Humus itself is not permanent. When humus decomposes, the end products are carbon dioxide, water, free nitrogen, ammonia and mineral salts. The process by which humus decomposes is known as mineralization. The mineral salts are largely in a form available to the succeeding crop. The carbon dioxide combines with the water to form carbonic acid which reacts with the mineral fractions of the soil, releasing more plant mineral nutrients previously tied up in forms not available to plants. The action of carbonic acid is the principal way in which new soil is made from the earth. After this process is completed, there is no choice but to start over, because there is nothing static or permanent about it.

The lasting effects of organic matter, although temporary at best, de-

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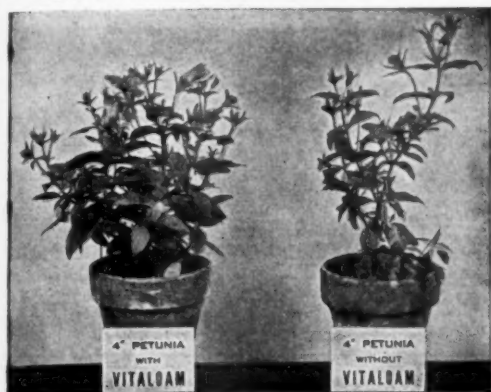
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pend on the type of organic residue used. The effects of good fibrous-rooted sods on soil structure seldom last more than two years in the north, and even a shorter period in the south. Quick-growing crops, such as soybeans, cereals and the legumes, last even a shorter period of time. Although not practical on any scale, materials containing large percentages of lignin, such as sawdust and peat, will last the longest, providing the activity of soil organisms is held in check by using care in applying nitrogen.

All things considered, a good grass-legume combination left in the ground three to four years is the best way to build and maintain soil.

On many soils, liming is required before a stand of alfalfa can be secured. Because it is assumed we are speaking of stock blocks and not seed beds, I have yet to see any damage done by lime. L. C. Chadwick indicates that lime should be applied on the basis of pH, so that the pH will not go above 6.5. In working with nurserymen, we have been using the standard recommendations for liming with good results. If there is any doubt about the use of lime, approximately the same results can be obtained on most soils by growing the grass alone and feeding it chem-

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ical nitrogen. Of course, soils used for ericaceous plants must not be limed.

Sod crops in the rotation should be fertilized. As the recommendations vary from state to state, it is suggested this information be obtained from your state experiment stations.

A word about green manures. In making use of such crops, the nurseryman is using a practice which originated in other fields of agriculture and which was designed primarily to add fertility to the soil rather than to improve its physical condition. Actually, there are comparatively little, if any, improvements in the physical condition of the soil from the use of green manures. Granting that they add organic matter, it is a type of matter that not only decomposes speedily, but generally has only a temporary effect on the physical condition of the soil. Green manures do increase fertility by making the products of their decomposition available to succeeding growth. Their decomposition, however, is so fast that, as a rule, only fast-growing annual crops are able to assimilate the available nutrients at about the rate they are released. What the plant cannot assimilate is lost by leaching or runoff. Fast-growing annual farm crops can benefit from green manures. Nursery stock, on the other hand, needs a steady, gradual flow of plant nutrients, year in and year out, rather than a shot in the arm at the beginning of each crop.

The next job is to combine these grasses and legumes into a rotation with nursery stock. In using the term rotation in nursery practice, I do not use the word arbitrarily, but rather as an objective toward which to strive. We all know that most nursery stock is dug over a period of years. Of course, exceptions include such special items of fruit stocks and materials grown for wholesale. In most cases, however, the nurseryman knows rather well how long stock will remain in a block. For example, in growing taxus, the nurseryman may plan to start digging the fourth year and have the field cleared by the sixth year. In setting up a rotation plan, he should assume an average of five years or he can let it go to six years. In either case, he has some basis on which to proceed.

In setting up a rotation plan, all major items of production should be grouped together into categories, or groups, depending on how long the items will remain in the nursery. In this way, all one, 2, 3-year, etc., stock

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can be grown together in the same block or blocks.

Here are some typical rotations that are now being used in nursery practice:

We have already mentioned that, even under good conditions, the effect of organic matter as it relates to tilth seldom extends beyond two years. This means that stock which stays in the field three, four, five and six years, is coasting, while the soil itself is deteriorating, having lost the effect of the organic matter. To offset this depletion, some means should be taken to maintain the organic matter level during the last years the field is planted with nursery stock. If it is available, the field should be topdressed with manure annually, beginning the third year. Many nurserymen have long followed the practice of seeding oats or buckwheat in the rows in late summer during the last cultivation. These are killed with the first frost and remain on the ground as a protective cover over winter.

Although no final data are available, trials are being conducted by some nurserymen to see if certain types of stock, including shade trees and conifers, cannot be grown under light sods established by seeding such species as white clover, alsike clover, black medic, ladino clover, Chewings fescue or Kentucky bluegrass in the rows.

At least one nursery is now trying out the use of a heavy grass mulch to protect the soil. The use of heavy, or smothering, mulches has become an accepted practice in orchards, and from the viewpoint of soil management, such a practice is to be recommended. The difficulties of application, as well as the fire and rodent hazard, appear to be major factors against its use.

#### Supporting Practices.

Nurseries which have adopted good soil-management programs have accomplished a major objective which will reflect both the vigor and quality of the stock produced. There are, however, many instances where the soil, slope, and topography are such that, regardless of how well the soil may be maintained in terms of tilth and fertility, there is no possible way it can be kept physically in place without supporting practices. As I have previously mentioned, these include such practices as terracing, diverting, contour tillage, making grassed waterways, and subsurface drainage. In some cases, even concrete structures may be necessary to walk the water off the land. Because all of these practices are concerned with the subject of hydraulics, they

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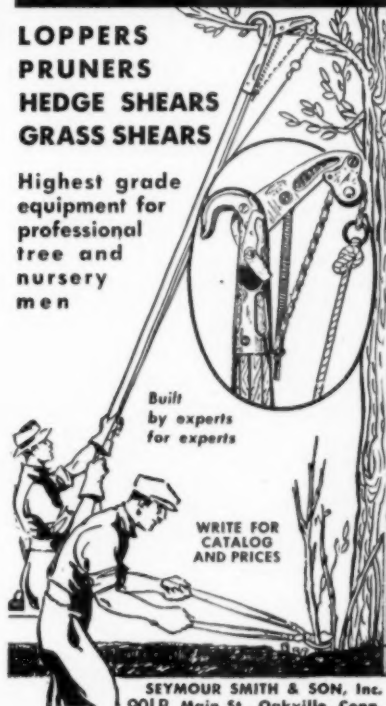


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should be designed to fit each case.

The number, spacing and gradient of terraces and diversions to meet a given situation depends on the degree and length of slope and also on the soil type. While I have no desire to make these practices appear difficult, if I were operating a nursery, I would want the assistance of an engineer in laying them out.

Speaking of terraces, the question often is raised as to whether or not they should be in sod or in nursery stock. As a general recommendation, the channel and berm should be sodded. Almost invariably, the production of nursery stock on the terraces causes maintenance problems.

Contour tillage is a relatively simple practice that has become quite commonplace in our agriculture. It is well adapted to nursery practice, provided some thought is given to its application. On gentle curves, it presents few, if any, problems. If contouring results in hairpin turns, about the only solution is to turn these irregular areas into sod and jump over them when working the land.

Contour tillage should not be used for the production of large stock. Stock in this category should be grown in straight rows. The extent to which contouring can be used will depend largely upon the digging equipment available.

In some areas, good soil management and efficient operation necessitate subsurface or tile drainage. As this subject is well understood, I will not discuss it here other than to say that without adequate drainage good soil management is impossible.

Having sketched some of the high points about the subject of soil con-

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servation, I would like to tell you something about how agriculture in this country has banded together to accomplish the conservation job.

#### Soil Conservation Districts.

Each of the forty-eight states now has enabling acts which authorize farmers to organize themselves into soil conservation districts. These districts come into being by a referendum of the people; and if the vote meets the requirements of the state law, district supervisors, or directors, are elected to run the district. Soil conservation districts are legal subdivisions of the state, but do not have the power to tax. They can, however, accept gifts, donations, grants of money, equipment and materials. They are also authorized to cooperate and accept assistance from the agricultural colleges, state experiment stations, extension services, soil conservation service and any other state or federal agencies or for that matter any group or organization that can assist them in doing their job. On March 1, 1947, there were 1,791 soil conservation districts in operation.

The soil conservation service assists farmers, including nurserymen, through soil conservation districts. When a district is formed and its governing body elected, the supervisors prepare a program and work plan outlining their objectives and how they propose to accomplish them. Then they ask the soil conservation service, as well as other agencies, for assistance. If their plans and objectives appear to be sound, technical assistance is made available to the district to help the supervisors do the job. Where specialized problems, such as engineering practices, are involved, engineers are detailed to handle specific jobs. Equipment may be loaned or granted to the district if specialized equipment is required or there is a need to demonstrate new techniques. Where necessary, small amounts of materials are furnished on an incentive basis to start operators on better land use practices.

The program is wholly voluntary. If an operator is interested, he makes application to the district supervisors for assistance. When the technician starts to work, he does not plan the farm himself but helps the farmer develop a plan which will meet his needs. This same procedure is being followed in working with nurseries in the corn belt. Because it is his land and he must carry out the work, we feel the plan should be the nurseryman's or the farmer's, and not ours. Most of you are located in soil con-



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USE HYPONEX to grow bigger and better flowers and vegetables in poorest soil—even in sand, clinders or water. Excellent fertilizer for trees, shrubs, lawns and house plants.

USE HYPONEX for top-dressing seedlings, cuttings and transplants. Produce strong root systems and stems, also more and larger flowers and fruit.

SELL HYPONEX to your customers. Nationally advertised.

1-oz. packet . . . . . 10¢—packed 71 to case—wt. 7 lbs.  
3-oz. can . . . . . 25¢—packed 30 to case—wt. 12 lbs.  
7-oz. can . . . . . 50¢—packed 24 to case—wt. 14 lbs.  
1-lb. can . . . . . \$1.00—packed 12 to case—wt. 16 lbs.  
10-lb. drum \$8—25 lbs. \$15—50 lbs. \$25—100 lbs. \$40  
Commercial growers and dealers receive 33-1/3% discount from the above retail prices.

BUY HYPONEX from your jobber or send \$1 for 1 lb. (makes 100 gallons). \$1 credited on first order for 1 drum or case.

**HYDROPONIC CHEMICAL COMPANY, Inc.**  
315 West 39th Street, New York 18, N. Y.

## UNUSUAL OFFERING

250 cases of  
WATERPROOF—GREASEPROOF  
PAPER

Has cloth backing and is self-adhesive.

Excellent for wrapping plants, shrubs, trees, etc. You use no twine—simply wrap paper around roots, etc.—press paper together, and it is sealed.

Rolls are 9¾ inches wide—300 feet long—packed 4 rolls to the case—weight, 70 lbs. per case.

Per case

Single case .....\$3.50

5 to 10 cases ..... 3.25

20 to 50 cases ..... 3.00

F.O.B.—Columbus, Ohio

### STANDARD SUPPLY CO.

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## LABELS FOR NURSERYMEN

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BENJAMIN CHASE  
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Burlap and Cotton  
NURSERY SQUARES  
all sizes.

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Piqua, Ohio  
Knives — Budding Supplies  
Pruning Tools — Spades  
Write for Bulletins.

servation districts. If you are not sure, or if there is no district in your community, I would suggest that you discuss the subject with your county agent. Or, if you care to, you can address an inquiry to the soil conservation service.

### PEACH SCALE CONTROL.

The cottony scale of peaches, which is prevalent this year along the shore of Lake Ontario in Niagara, Monroe, and Wayne counties, N. Y., has been controlled by certain oils.

The scale, which in late spring and summer looks like popcorn on the undersides of the peach twigs and branches, is capable of ruining the entire crop of a tree by turning all of the fruit black. This is because of a sooty mold which grows in the honey-dew produced by the young insects. Since from 2,000 to 4,000 eggs are laid by each adult, a few of them can do a great deal of damage.

Entomologists at the New York state experiment station at Geneva have been working on the cottony scale of peaches since last year, when the first outbreak since 1928 was noticed. A nicotine soap spray was tested and found to be of little benefit, and so this year oils are being used.

A series of applications has been completed already, and according to Dr. E. H. Wheeler, of the Geneva station, "all oils tested at one per cent or above, used alone, gave better than ninety per cent kill of young scales which were crawling or had settled on the leaves." Both summer oils and dormant oils were used. When nicotine was combined with the lower concentration of oils, definite improvement in control was seen—in some cases as high as ninety-nine per cent.

A serious complication, however, is that oils cannot be used after applications of DDT or sulphur, because of injury to the foliage. These are usually applied to control brown rot or fruit moth. If carbamates, organic fungicides, are used, oils will do no harm. Wherever so-called superior type oils have been used (those having a high unsulphonated residue) there has been no oil injury to the tree, but certain other oils may cause damage.

Further tests are being made to check on final control—study of the effects of the recommended program of using one spray when the scale is fifty per cent hatched and a second when the scale is completely hatched, the effects of one application at the end of the hatching season and the use of several new insecticides.

## SHADE TREES

• Insects and Worms—destroyed vegetation—reduced leaf area—stunted growth—these are some of the problems of the shade tree grower. Get our illustrated booklet that describes the use of "Black Leaf 40" in controlling certain insects on shade trees. Lists insects—gives dosage.

FREE BOOKLET—Write  
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Black  
Leaf 40

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## IT COSTS NO MORE

(and in most instances less)

FOR OUR PACKING OF  
Nursery Burlap  
Squares and Rolls

Write for prices and samples.

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P. O. Box 167 Rochester, N. Y.

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For Nurserymen

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# CLOVERSET POTS

Pat. No. 2073695

• QUICK—EASY FOR NEW  
SERVE-YOURSELF PLANS

• HANDSOME DISPLAYS—  
ALL PLANTS OF EACH  
VARIETY IN SAME SIZE  
POTS

*Will Boost Profits!*

(STANDARD HEAVY)

	No. 0	No. 1	No. 2	No. 3
Height	5½ ins.	6½ ins.	9½ ins.	9 ins.
Diam. Top	5 ins.	6 ins.	7 ins.	8 ins.
Bottom Diam.	4½ ins.	5½ ins.	6½ ins.	7½ ins.
Corresponding Clay Pot	6-in.	7-in.	8-in.	9-in.
Approx. Weight Per 100	35 lbs.	52 lbs.	78 lbs.	88 lbs.
Per 100	\$2.75	\$4.00	\$4.50	\$5.00
Per 1000	\$25.00	\$37.50	\$42.50	\$47.50

No. 0 for perennials and for greenhouse use;

No. 1 for perennials and mums;

No. 2 for roses and shrubs;

No. 3 for large shrubs and transplanting.

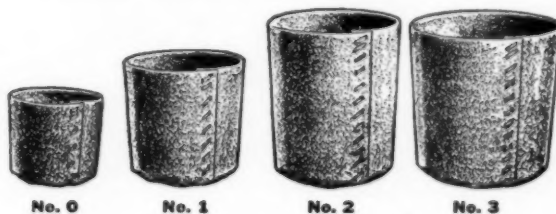
F.O.B. KANSAS CITY. TERMS: CASH WITH ORDER. EXCEPT ESTABLISHED ACCOUNTS. Prices Subject to Change Without Notice. Please send ¼ of amount on C.O.D. orders.

Unless otherwise instructed, we will determine method of shipment. If you designate express, we advise you to check the cost with your local Express Agent.

Cloverset Pots take 3rd class freight rate. All Cloverset Pots are packed 100 in carton, ready for use. We do not break cartons.

Orders for 300 pots or more take 1,000-pot price. Orders for less than 300 pots take 100-pot price.

Nurserymen find that Plants in Cloverset Pots sell easily for much higher prices (although these low-price pots can be given away with plant). Your customers, too, will appreciate all the advantages of buying your plants in these modern, practical pots . . . from which the plants can be so easily removed without root damage.



No loss from breakage, with weight only 1/16 that of same capacity clay pot. Non-porous to cut watering in half. Your customer will find that a started and potted plant is seldom lost in a Cloverset pot with double soil capacity.

Write Us About Carload Discounts and Freight Savings.

## CLOVERSET FLOWER FARM

ERNEST HAYSLEY & SON

105th Street and Broadway, Kansas City 5, Mo.

# FAST MATURING EVERGREEN LINERS

Fall of '47 and Spring of '48

This selection of heavy, field-grown lining-out stock is designed to afford you the advantage of a quick turnover in your nursery.

Items listed below are all twice transplanted and under normal growing conditions will be ready for landscape use in two to four years.

## FIELD-GROWN      CLEAN ROOT

	Per 100	Per 1000
Pfitzer Juniper, 15 to 18 ins., xx, field.....	\$ 85.00	\$800.00
Black Hills Spruce, 8 to 10 ins., xx, field.....	35.00	300.00
Black Hills Spruce, 10 to 12 ins., xx, field.....	40.00	350.00
White Pine, 12 to 15 ins., xx, field.....	35.00	300.00
Douglas Fir, 12 to 15 ins., xx, field.....	45.00	400.00
Douglas Fir, 18 to 24 ins., xx, field.....	75.00	700.00
Upright Japanese Yew, 12 to 15 ins., xx, field....	125.00	.....
Spreading Japanese Yew, 12 to 15 ins., xx, field..	90.00	.....
Intermedia Yew, 12 to 15 ins., xx, field.....	90.00	.....
American Arborvitae, 10 to 12 ins., xx, field....	25.00	200.00
American Arborvitae, 12 to 15 ins., xx, field....	35.00	300.00

## TWO 'X' BALLED AND BURLAPPED

	Per 10	Per 100
Pfitzer Juniper, 15 to 18 ins., xx, B&B.....	\$17.00	\$160.00
Pfitzer Juniper, 18 to 24 ins., xx, B&B.....	20.00	190.00
Vase-shaped Prostrate Juniper, 15 to 18 ins., xx, B&B.....	13.50	125.00
Japanese Juniper, 15 to 18 ins., xx, B&B.....	17.50	.....
Meyer Juniper, 12 to 15 ins., xx, B&B.....	16.00	150.00
Canaert Juniper, 18 to 24 ins., xx, B&B.....	21.00	200.00
Black Hills Spruce, 18 to 24 ins., xx, B&B.....	16.00	150.00
Mugho Pine, 8 x 8 ins., xx, B&B.....	11.00	100.00
Mugho Pine, 10 x 10 ins., xx, B&B.....	15.00	125.00
Douglas Fir, 18 to 24 ins., xx, B&B.....	14.00	130.00
Douglas Fir, 2 to 3 ft., xx, B&B.....	17.00	160.00
Spreading Japanese Yew, 12 to 15 ins., xx, B&B..	15.50	145.00
Brown's Yew, 10 to 12 ins., xx, B&B.....	15.50	145.00
Intermedia Yew, 10 to 12 ins., xx, B&B.....	16.50	155.00
Hill Pyramidal Yew, 10 to 12 ins., xx, B&B.....	16.50	155.00
Hemlock, 15 to 18 ins., xx, B&B.....	11.00	100.00
Hemlock, 18 to 24 ins., xx, B&B.....	13.50	125.00

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*Evergreen Specialists*

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